



DEC - 7 2017

Zachary Dransoff
California Resources Production Corp.
11109 River Run Blvd
Bakersfield, CA 93311

RE: Notice of Final Action - Authority to Construct
Facility Number: C-273
Project Number: C-1172045

Dear Mr. Dransoff:

The Air Pollution Control Officer has issued the Authority to Construct (ATC) permits to California Resources Production Corp. for the installation of fifteen (15) 2.28 MMBtu/hr- each natural gas/field gas-fired micro turbines (ATCs C-273-32-0 thru '46-0) each powering a 200 kW electrical generator operated at various unspecified locations within the same stationary source (C-273) and installation of a gas processing plant (ATC C-273-47-0) including amine sweetening and glycol dehydration operations at your natural gas production facility 'Kettleman North Dome Unit' located in Kings County, CA. Enclosed are the ATCs 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 ATCs was published on November 3, 2017. The District's analysis of the proposal was also sent to CARB on October 31, 2017. 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. Errol Villegas at (559) 230-6000.

Sincerely,



Arnaud Marjollet
Director of Permit Services

AM:sa

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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



Facility # C-273
CALIFORNIA RESOURCES PRODUCTION CORP.
11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

AUTHORITY TO CONSTRUCT (ATC)

QUICK START GUIDE

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

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

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

Seyed Sadredin

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Modesto, CA 95356-8718

Tel: (209) 557-6400 FAX: (209) 557-6475

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Southern Region

34946 Flyover Court

Bakersfield, CA 93308-9725

Tel: 661-392-5500 FAX: 661-392-5585

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-32-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #1)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services

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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-33-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #2)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services

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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
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15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-34-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #3)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO


Arnaud Marjollet, Director of Permit Services

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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
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11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
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13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
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15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-35-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #4)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services
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17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-36-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.
MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:
2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #5)

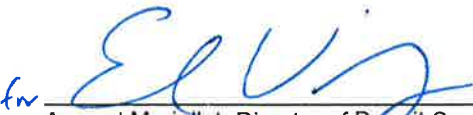
CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO


Arnaud Marjollet, Director of Permit Services
C-273-36-0 Nov 30 2017 11:03AM - AHMADS : Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-37-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.
MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:
2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #6)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services
C-273-37-0 Nov 30 2017 11:03AM -- AHMADS - Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-38-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #7)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO


Arnaud Marjollet, Director of Permit Services
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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-39-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #8)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO

for 
Arnaud Marjollet, Director of Permit Services

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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
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15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-40-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #9)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
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4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services

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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-41-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #10)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO


Arnaud Marjollet, Director of Permit Services
C-273-41-0 Nov 30 2017 11:03AM - AHMADS - Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-42-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #11)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services
C-273-42-0 Nov 30 2017 11:03AM - AHMADS - Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-43-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.
MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:
2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #12)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services

C-273-43-0 Nov 30 2017 11:03AM - AHMADS : Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-44-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.
MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:
2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #13)


CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO


Arnaud Marjollet, Director of Permit Services
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7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-45-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #14)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director / APCO



Arnaud Marjollet, Director of Permit Services
C-273-45-0 Nov 30 2017 11:03AM - AHMADS : Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-46-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

2.28 MMBTU/HR NATURAL GAS/FIELD GAS-FIRED CAPSTONE MODEL C200 MICRO TURBINE POWERING A 200 KW ELECTRICAL GENERATOR OPERATED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE SAME STATIONARY SOURCE C-273 (CAPSTONE #15)

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender NOx emission reduction credits for the following quantity of emissions: 1st quarter - 185 lb, 2nd quarter - 185 lb, 3rd quarter - 186 lb, and fourth quarter - 186 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4142-2 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This micro turbine shall not operate closer than 804 meters from the property boundary. [District Rule 4102]

CONDITIONS CONTINUE ON NEXT PAGE

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C-273-46-0 : Nov 30 2017 11:03AM - AHMADS : Joint Inspection NOT Required

7. 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]
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 9 ppmvd NO_x @ 15% O₂ (equivalent to 0.033 lb-NO_x/MMBtu); 0.0285 lb-SO_x/MMBtu; 0.0076 lb-PM₁₀/MMBtu; 40 ppmvd CO @ 15% O₂ (equivalent to 0.09 lb-CO/MMBtu); or 7 ppmvd VOC @ 15% O₂ (equivalent to 0.009 lb-VOC/MMBtu). [District Rules 2201 and 4201]
9. The turbine shall only burn produced gas and/or PUC quality gas with a fuel sulfur concentration not exceeding 10 grain/100 dscf. [District Rules 2201 and 4801]
10. Permittee shall measure and record fuel gas sulfur content (as H₂S) within 60 days of initial start-up, upon any change in the gas fuel source, and at least once every 12 months thereafter. [District Rule 2201]
11. Permittee shall determine sulfur content of gas consumed by the turbine using ASTM method D3246 or double GC for H₂S and mercaptans. [District Rule 2201]
12. Permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ within 60 days of initial start-up at each location and at least once every 12 months thereafter, 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. [District Rule 2201]
13. If either the NO_x or CO concentrations corrected to 15% 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 the performing the notification and testing required by this condition. [District Rule 2201]
14. All emission monitoring 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 Rule 2201]
15. Permittee shall maintain the following records: (1) the date and time of O₂ and NO_x measurements, (2) the O₂ concentration in percent and the measured NO_x concentration corrected to 15% 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 Rule 2201]
16. Permittee shall maintain an accurate record of each location where this turbine is operated and the sulfur content (as H₂S) of the gas from each fuel source. [District Rule 2201]
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201]

AUTHORITY TO CONSTRUCT

PERMIT NO: C-273-47-0

ISSUANCE DATE: 11/30/2017

LEGAL OWNER OR OPERATOR: CALIFORNIA RESOURCES PRODUCTION CORP.

MAILING ADDRESS: 11109 RIVER RUN BLVD
BAKERSFIELD, CA 93311

LOCATION: KETTLEMAN NORTH DOME UNIT
KINGS COUNTY, CA

EQUIPMENT DESCRIPTION:

GAS PROCESSING PLANT CONSISTING OF AMINE SWEETENING AND GLYCOL DEHYDRATION OPERATIONS WITH ELECTRICALLY HEATED GLYCOL AND AMINE REBOILERS, HEAT EXCHANGERS, GLYCOL AND AMINE PUMPS, LIQUID KNOCKOUT SYSTEMS, AND ASSOCIATED EQUIPMENT

CONDITIONS

1. This facility will have up to 12 months after commencing operation authorized by this Authority to Construct (ATC) to either submit a Title V application or comply with District Rule 2530 - Federally Enforceable Potential to Emit. [District Rule 2520]
2. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 567 lb, 2nd quarter - 568 lb, 3rd quarter - 568 lb, and fourth quarter - 568 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 4/21/11) for the ERC specified below. [District Rule 2201]
3. ERC Certificate Number S-4908-1 (or a certificate split from this certificate) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. 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]
6. VOC fugitive emissions from the components in gas service associated with this unit shall not exceed 4.1 lb/day. [District Rule 2201]

CONDITIONS CONTINUE ON NEXT PAGE

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C-273-47-0 Nov 30 2017 11:03AM - AHMADS : Joint Inspection NOT Required

7. Permittee shall maintain accurate component count for this operation according to CAPCOA's "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities", Table IV-2c (Feb 1999), Screening Value Range emission factors < 10,000 ppmv. Permittee shall update such records when new components are approved and installed. [District Rule 2201]
8. Glycol dehydration vent VOC emissions shall be condensed and returned to the natural gas or crude oil production line. [District Rule 4408]
9. Condensate handling shall be conducted in closed systems resulting in fugitive component emissions only and no evaporation of VOCs. [District Rule 4408]
10. All piping, valves, and other fittings shall be constructed and maintained in a leak-free condition. "Leak-free" shall be defined as emitting no more than 20,000 ppm of methane measured from the potential source with an instrument calibrated with methane in accordance with EPA Method 21. A reading in excess of 20,000 ppmv above background is a violation of this permit, unless it is repaired as otherwise provided in this permit. [District Rules 2201 and 4408]
11. Any leak of dripping rate of more than three (3) drops per minute of liquid containing VOC or as a reading of methane, in excess of 100 ppmv above background (for valves and connectors) and 500 ppmv (for compressor and pump seals) when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21, shall be repaired in a manner consistent with the procedures specified in Rule 4409. This requirement shall not apply to inaccessible or unsafe-to-access components as identified in the Operator Management Plan required by Rule 4409. [District Rules 2201, 4102, and 4409]
12. Permittee shall not use any components that leak in excess of the applicable leak standards as specified in this permit. Components that have been found leaking in excess of the applicable leak standards of this rule may be used provided such leaking components have been identified with a tag for repair, are repaired, or are awaiting re-inspection after being repaired, within the applicable time period specified in this permit. [District Rule 4409]
13. For valves, threaded connections, flanges, pipes, pumps, compressors, and other components not specified in this permit; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 1,000 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 2,000 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409]
14. For pressure relief devices; a major gas leak is a detection of > 10,000 ppmv as methane; a minor gas leak is a detection of 200 to 10,000 ppmv as methane when the component is in liquid service; a minor gas leak is a detection of 400 to 10,000 ppmv as methane when the component is in gas/vapor service. [District Rule 4409]
15. Each hatch shall be closed at all times except during sampling or adding of process material through the hatch, or during attended repair, replacement, or maintenance operations, provided such activities are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. [District Rule 4409]
16. Leaks detected during quarterly operator inspections shall not be counted towards determination of compliance with the provisions of Rule 4409 provided the leaking components are repaired as soon as practicable but not later than the time frame specified in this permit. Leaks detected during quarterly operator inspections that are not repaired, replaced, or removed from operation as soon as practicable but not later than the time frame specified in this rule shall be counted toward determination of compliance with the provisions of Rule 4409. [District Rule 4409]
17. Leaking components at this facility detected during annual operator inspections, as required by Rule 4409 for a specific component type, that exceed the leak standards specified in this permit, shall constitute a violation of this rule. This violation is regardless of whether or not the leaking components are repaired, replaced, or removed from operation within the allowable repair time frame specified in this permit. [District Rule 4409]
18. An open-ended line, or a valve located at the end of the line, that is not sealed with either a blind flange, a plug, a cap, or a second closed valve that is not closed at all times, except during attended operations requiring process fluid flow through the open-ended line is a leak. Attended operations include draining or degassing operations, connection of temporary process equipment, sampling of process streams, emergency venting, and other normal operational needs, provided such operations are done as expeditiously as possible and with minimal spillage of material and VOC emissions to the atmosphere. This type of leak is a violation of this permit during annual operator inspection or District inspection. [District Rule 4409]

CONDITIONS CONTINUE ON NEXT PAGE

19. A minor liquid leak exists when more than three drops of liquid per minute, that is not seal lubricant and is not a major liquid leak, leaks from the component. [District Rule 4409]
20. A major liquid leak from the component is considered a leak for Rule 4409 purposes. A major liquid leak from a component is when a visible mist or a continuous flow of liquid, that is not seal lubricant, leaks from the component. This type of leak shall be a violation of this permit during annual operator inspection or District inspection. [District Rule 4409]
21. Gas leaks greater than 50,000 ppmv, as methane are violations of this permit during annual operator inspection or District inspection. [District Rule 4409]
22. When compressors, pressure relief devices, or other components not listed in this permit are inspected, a leak from these components is when more than one component has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. [District Rule 4409]
23. When 200 or fewer pumps are inspected, a leak from a pump is when more than two pumps have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 pumps are inspected, a leak from a pump is when more than 1.0 % (rounded up to the nearest whole number) of the pumps have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. This type of leak shall be a violation of this permit during annual operator inspection or District inspection. [District Rule 4409]
24. When 200 or fewer flanges are inspected, a leak from a flange is when more than one flange has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 flanges are inspected, a leak from a flange is when more than 0.5 % (rounded up to the nearest whole number) of the flanges have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. This type of leak shall be a violation of this permit during annual operator inspection or District inspection. [District Rule 4409]
25. When 200 or fewer threaded connections are inspected, a leak from a threaded connection is when more than one threaded connection has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 threaded connections are inspected, a leak from a threaded connection is when more than 0.5 % (rounded up to the nearest whole number) of the threaded connections have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. This type of leak shall be a violation of this permit during annual operator inspection or District inspection. [District Rule 4409]
26. When 200 or fewer valves are inspected, a leak from a valve is when more than one valve has a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. When greater than 200 valves are inspected, a leak from a valve is when more than 0.5 % (rounded up to the nearest whole number) of the valves have a minor liquid leak, a minor gas leak, or a gas leak > 10,000 ppmv and < or equal to 50,000 ppmv. This type of leak shall be a violation of this permit during annual operator inspection or District inspection. [District Rule 4409]
27. For manned facilities, all accessible operating pumps, compressors, and pressure relief devices, in service, shall be audio-visually inspected for leaks at least once every 24 hours except when operators do not report to the facility during a 24 hour period. [District Rule 4409]
28. For unmanned facilities all accessible operating pumps, compressors, and pressure relief devices, in service, shall be audio-visually inspected for leaks at least once per calendar week. [District Rule 4409]
29. All accessible operating pumps, compressors, and pressure relief devices, in service, that are found to be leaking by audio-visual inspection shall be attempted to be repaired immediately. The leaking component shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409]
30. Except for inaccessible components, unsafe-to-monitor components, or pipes, all components, in service, shall be tested for leaks at least once every calendar quarter. [District Rule 4409]
31. All new, replaced, or repaired fittings, flanges, and threaded connections shall be tested for leaks immediately after being placed into service. [District Rule 4409]
32. All inaccessible components shall be tested for leaks at least once every 12 months. [District Rule 4409]
33. All unsafe-to-monitor components shall be tested for leaks during each turnaround. [District Rule 4409]
34. All pipes shall be visually inspected for leaks at least once every 12 months. [District Rule 4409]

CONDITIONS CONTINUE ON NEXT PAGE

35. All pipes, in service, that are found to be leaking by visual inspection shall be attempted to be repaired immediately. The leaking pipe shall then be tested within 24 hours and, if found leaking again, shall be repaired as soon as practicable but not later than the timeframe specified in this permit. [District Rule 4409]
36. The annual pipe inspection required by either the Department of Oil, Gas, and Geothermal Resources (DOGGR) pursuant to California Code of Regulation Title 14, Division 2, Subchapter 2, Section 1774 (Oilfield Facilities and Equipment Maintenance), or by the Spill Prevention Control and Countermeasure Plan (SPCC) pursuant to 40 Code of Federal Regulation Part 112 (Oil Prevention and Response: Non- Transportation-Related Onshore and Offshore Facilities) can be used as the annual pipe inspection required by District Rule 4409. [District Rule 4409]
37. Except for pumps, compressors, and pressure relief devices, the permittee may apply for written approval from the District to change the inspection frequency of accessible components from quarterly to annually for a specific component type provided the following two qualifying requirements are met. During the previous five consecutive quarterly inspections, for the specific component type, there shall be no more leaks than as allowed by this permit. The permittee also shall not have received a Notice of Violation (NOV) from the District during the previous 12 months for violating any provisions of District Rule 4409 for the specific component type. If these two qualifying requirements have not been met, then the inspection frequency shall revert back to quarterly. The written request shall include pertinent documentation to demonstrate that the operator has successfully met the two qualifying requirements. [District Rule 4409]
38. Permittee shall notify the District in writing within five calendar days after changing the inspection frequency for a specific component type. The written notification shall include the reason(s) and date of change to a quarterly inspection frequency. [District Rule 4409]
39. A pressure relief device that releases to the atmosphere shall be inspected by the permittee for leaks as soon as practicable but not later than 24 hours after the time of the release. The permittee shall reinspect the pressure relief device for leaks not earlier than 24 hours after the initial inspection but not later than 15 calendar days after the date of the initial release. If the pressure relief device is found by the permittee to be leaking during either inspection, the pressure relief device leak shall be treated as if the leak was found during the required quarterly operator inspections. [District Rule 4409]
40. District inspections shall not be counted as an operator inspection required by District Rule 4409. Any attempt by an operator to count such District inspections as part of the operator's mandatory inspections is considered a willful circumvention of the rule and is a violation of this rule. [District Rule 4409]
41. Except for pressure relief devices, a component shall be inspected for leaks not later than 15 calendar days after repairing the leak or replacing the component. [District Rule 4409]
42. Permittee, upon detection of a leaking component, shall affix to that component a weatherproof, readily visible tag, bearing the date and time when the leak was detected and the date and time of the leak measurement. For gaseous leaks, the tag shall indicate the leak concentration in ppmv. For liquid leaks, the tag shall indicate whether it is a major liquid leak or a minor liquid leak. The tag shall indicate, when applicable, whether the component is an essential component, an unsafe-to-monitor component, or a critical component. The tag shall remain in place until the leaking component is repaired or replaced and reinspected and found to be in compliance with the requirements of this rule. [District Rule 4409]
43. Permittee shall minimize all component leaks immediately, to the extent possible, but not later than one hour after detection of the leak in order to stop or reduce leakage to the atmosphere. If the leak has been minimized but the leak still exceeds the applicable leak standards specified in this permit, the operator shall do one of the following within the timeframes specified within this permit: 1) repair or replace the leaking component; 2) vent the leaking component to a closed vent system; 3) or remove the leaking component from operation. A closed vent system is a District approved system that is not open to the atmosphere. It is composed of hard-piping, ductwork connections and, if necessary, flow inducing devices that transport gas or vapor from a piece or pieces of equipment to a District approved control device that has a overall VOC collection and destruction or removal efficiency of at least 95%, or that transports gases or vapors back to a process system. [District Rule 4409]

44. Except for essential and critical components, the operator shall repair minor gas leaks within seven days. The operator shall repair major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, within three days. The operator shall repair major gas leaks, which are > 50,000 ppmv, within two days. The operator shall repair minor liquid leaks within three days. The operator shall repair major liquid leaks within two days. The leak rate measured after leak minimization has been performed shall be the leak rate used to determine the applicable repair period. The start of the repair period shall be the time of the initial leak detection. [District Rule 4409]
45. For each calendar quarter, the operator may extend the repair period for a total number of leaking components, not to exceed 0.05 % of the number of components inspected, by type, rounded upward to the nearest whole number. The repair period for minor gas leaks can be extended by seven additional days. The repair period for major gas leaks, which are > 10,000 ppmv but < or equal to 50,000 ppmv, can be extended by two additional days. [District Rule 4409]
46. If a leaking component is an essential component or a critical component and which cannot be shut down immediately for repairs, the operator shall do the following: 1) minimize the leak within one hour after detection of the leak; 2) and if the leak has been minimized, but the leak still exceeds the applicable leak standards of Rule 4409 as specified in this permit, the essential component or critical component shall be repaired or replaced to eliminate the leak during the next process unit turnaround. The repair shall occur no later than one year from the date of the original leak detection. [District Rule 4409]
47. For any component that has incurred five repair actions for major gas leaks or major liquid leaks, or a combination of major gas leaks and major liquid leaks within a continuous 12-month period, the operator shall do one of the following four options. Options 1a through 1f require written notification to the District, option 2 requires written notification to the District and written District approval, options 3 and 4 do not require written notification to the District: 1a) For compressors replace the existing seal with either a dual mechanical seal, an oil film seal, a gas seal, or a face-type seal; 1b) for pumps replace the pump with a seal-less pump or replace the seal with a dual mechanical seal; 1c) for pressure relief devices replace the pressure relief device and install a rupture disc in the line which precedes the pressure relief device such that the pressure relief device is in series with and follows the rupture disc; 1d) for valves replace the valve with a sealed bellows valve, or for seal rings install graphite or Teflon chevron seal rings in a live-loaded packing gland; 1e) for threaded connections weld the connections or replace threaded connections with flanges; 1f) for sampling connections replace the sampling connection with a closed-loop sampling system; 2) Replace the component with Achieved-in-Practice Best Available Control Technology (BACT) equipment; 3) Vent the component to a District approved closed-vent system; 4) Remove the component from operation. For any component that is accessible, is not unsafe-to-monitor, is not an essential component, or is not a critical component, the operator shall comply with these requirements as soon as practicable but not later than twelve months after the date of detection of the fifth major leak within a continuous 12-month period. For any component that is inaccessible, is unsafe-to-monitor, is essential, or is a critical component, the operator shall comply with these requirements as soon as practicable but not later than the next turnaround or not later than two years after the date of detection of the fifth major leak within a continuous 12-month period, whichever comes first. [District Rule 4409]
48. All major components and critical components shall be physically identified clearly and visibly for inspection, repair, and recordkeeping purposes. The physical identification shall consist of labels, tags, manufacturer's nameplate identifier, serial number, or model number, or other system approved by the District that enables an operator or the District to locate each individual component. The operator shall replace physical identifications that become missing or unreadable as soon as practicable but not later than 24 hours after discovery. [District Rule 4409]
49. Permittee shall keep a copy of the District approved Operator Management Plan (OMP) at the facility and make it available to the District, ARB, and EPA upon request. [District Rule 4409]
50. By January 30th of each year the permittee shall submit to the District for approval, in writing, an annual report indicating any changes to the existing OMP on file at the District. [District Rule 4409]

51. Permittee shall maintain an inspection log that has been signed and dated by the facility operator responsible for the inspection, certifying the accuracy of the information recorded in the log. The inspection log shall contain, at a minimum, all of the following information: 1) The total number of components inspected, and the total number and percentage of leaking components found by component types; 2) The location, type, name or description of each leaking component and the description of any unit where the leaking component is found; 3) Date of the leak detection and method of the leak detection; 4) For gaseous leaks, record the leak concentration in ppmv, and for liquid leaks record whether the leak is a major liquid leak or a minor liquid leak; 5) The date of repair, replacement, or removal from operation of the leaking component(s); 6) The identification and location of essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes first; 7) The method(s) used to minimize the leak from essential components and critical components found leaking that cannot be repaired until the next process unit turnaround or not later than one year after leak detection, whichever comes earlier; 8) The date of re-inspection and the leak concentration in ppmv after the component is repaired or is replaced; 9) The inspector's name, business mailing address, and business telephone number. [District Rule 4409]
52. Records shall be maintained of each calibration of the portable hydrocarbon detection instrument utilized for inspecting components. The records shall include a copy of the current calibration gas certification from the vendor of the calibration gas cylinder, the date of calibration, the concentration of calibration gas, the instrument reading of calibration gas before adjustment, the instrument reading of calibration gas after adjustment, the calibration gas expiration date, and the calibration gas cylinder pressure at the time of calibration. [District Rule 4409]
53. All measurements of gaseous leak concentrations shall be conducted according to EPA Method 21 using an appropriate portable hydrocarbon detection instrument calibrated with methane. The instrument shall be calibrated in accordance with the procedures specified in EPA Method 21 or the manufacturer's instructions not more than 30 days prior to its use. [District Rule 4409]
54. The VOC content by weight percent shall be determined using ASTM D-1945 for gases and South Coast Air Quality Management District (SCAQMD) Method 304-91 for liquids. [District Rule 4409]
55. The percent by volume liquid evaporated at 302 °F (150 °C) shall be determined using ASTM D-86. [District Rule 4409]
56. The TVP of any organic liquid shall be determined by measuring the Reid Vapor Pressure (RVP) using ASTM D-323, and converting the RVP to TVP at the maximum organic liquid storage temperature. The conversion of RVP to TVP shall be done in accordance with the procedures specified in Appendix A of District Rule 4409. [District Rule 4409]
57. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM D-287 or ASTM 1298. Sampling for API gravity shall be performed in accordance with ASTM D-4057. [District Rule 4409]
58. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4409]
59. Halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422. [District Rule 4409]
60. Permittee shall maintain monthly records of the amount of gas dehydrated, type of glycol used, description of any installed VOC control systems, flow diagram of dehydrator and any VOC controls, and maintenance records of the VOC control system. [District Rule 4408]
61. The permittee shall keep records, for the life of the operation, of all analysis demonstrating that the facility's design capacity is less than 2 Long Tons per day (LT/D) of H₂S expressed as sulfur (Long Ton will be equal to 2,240 pounds). Such records must be updated annually for a continued exemption. [40 CFR Subpart OOOOa §60.5423a(c)]
62. 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, 4408, and 4409]