



MAR 14 2013

Jeffrey Misenhimer
Visalia Wastewater Treatment
7579 Avenue 288
Visalia, CA 93277

**Re: Notice of Minor Title V Permit Modification
District Facility # S-984
Project # S-1130470**

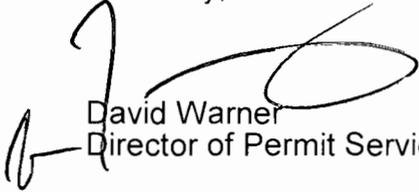
Dear Mr. Misenhimer:

Enclosed is the District's analysis of your application for minor Title V permit modification for the facility identified above. You proposed a Title V minor permit modification to incorporate recently issued ATC S-984-5-3 into the Title V operating permit. The ATC added a flared gas throughput limit to the permit in order to obtain exemption from annual reporting of 'reportable flaring events' (i.e. flaring events exceeding 500,000 scf/day of flared gas or 500 lb/day of sulfur emissions), as otherwise required by District Rule 4311.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued ATC S-984-5-3, emission increases, application, and previous Title V permit. This project will be subject to a 45-day EPA commenting period prior to the District taking final action.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Enclosures

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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



MAR 14 2013

Gerardo C. Rios, Chief
Permits Office
Air Division
U.S. EPA - Region IX
75 Hawthorne St
San Francisco, CA 94105

Re: **Notice of Minor Title V Permit Modification**
District Facility # S-984
Project # S-1130470

Dear Mr. Rios:

Enclosed for you to review is an application for minor Title V permit modification for the facility identified above. Visalia Wastewater Treatment is proposing a Title V minor permit modification to incorporate the recently issued ATC S-984-5-3 into the Title V operating permit. The ATC added a flared gas throughput limit to the permit in order to obtain exemption from annual reporting of 'reportable flaring events' (i.e. flaring events exceeding 500,000 scf/day of flared gas or 500 lb/day of sulfur emissions), as otherwise required by District Rule 4311.

Enclosed is the engineering evaluation with the following attachments: proposed modified Title V permit, recently issued ATC S-984-5-3, emission increases, application, and previous Title V permit. Please submit your written comments on this project within the 45-day comment period that begins on the date you receive this letter.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Jim Swaney at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Enclosures

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TITLE V APPLICATION REVIEW

Minor Modification
Project #: S-1130470

Engineer: Jonah Aiyabei
Date: March 12, 2013

Facility Number: S-984
Facility Name: Visalia Wastewater Treatment
Mailing Address: 7579 Avenue 288
Visalia, CA 93277

Contact Name: Jeffrey B. Misenhimer, Plant Superintendent
Phone: (559) 713-4176

Responsible Official: Jeffrey B. Misenhimer
Title: Plant Superintendent

I. PROPOSAL

Visalia Wastewater Treatment is proposing a Title V minor permit modification to incorporate the changes authorized in Authority to Construct #S-984-5-3 into the Title V permit to operate. The ATC was issued without a Certificate of Conformity, and as such a Title V permit modification is required for implementation of the proposed changes.

The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with the applicable requirements and to provide the legal and factual basis for the proposed revisions.

II. FACILITY LOCATION

The facility is located at 7579 Avenue 288 in Visalia, CA.

III. EQUIPMENT DESCRIPTIONS

S-984-5-4: SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES

IV. SCOPE OF EPA AND PUBLIC REVIEW

This change to a Title V permit is considered to be a minor modification and, as such, requires no public review.

V. APPLICABLE REQUIREMENTS

District Rule 2520, Federally Mandated Operating Permits (Adopted June 21, 2001)

VI. DESCRIPTION OF PROPOSED MODIFICATIONS

The ATC added a flared gas throughput limit to the permit in order to obtain exemption from annual reporting of 'reportable flaring events' (i.e. flaring events exceeding 500,000 scf/day of flared gas or 500 lb/day of sulfur emissions), as otherwise required by District Rule 4311.

The permit conditions have been modified as follows:

- Conditions 1 through 20 from the existing Permit to Operate have been replaced with conditions 2 through 21 on the modified Permit to Operate.
- Condition 21 from the existing Permit to Operate has been replaced by condition 26 on the modified Permit to Operate.
- New condition 1 has been added to the modified Permit to Operate to limit flared gas throughput.
- New conditions 22 through 25 have been added to the modified Permit to Operate to ensure compliance with additional Rule 4311 reporting and recordkeeping requirements that were previously not listed on the permit.

VII. COMPLIANCE

In accordance with Rule 2520, 3.20, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;
2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;

4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:
 - a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
 - b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
6. Do not seek to consolidate overlapping applicable requirements.

In accordance with Rule 2520, the application meets the procedural requirements of section 11.4 by including;

1. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
2. The source's suggested draft permit; and
3. Certification by a responsible official that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used.

VIII. ATTACHMENTS

- A. Proposed Modified Title V Permit to Operate
- B. Emissions Increases
- C. Authority to Construct
- D. Existing Permit to Operate
- E. Application

ATTACHMENT A

Proposed Modified Title V Permit to Operate

S-984-5-4

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-5-4

EXPIRATION DATE: 03/31/2017

EQUIPMENT DESCRIPTION:

SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES

PERMIT UNIT REQUIREMENTS

1. Combustion of flare gas shall not exceed the combined design capacity of 357,000 scf per calendar day. [District Rule 4311] Federally Enforceable Through Title V Permit
2. The flame shall be present at all times when combustible gases are vented through the flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
3. The flares shall operate with a pilot flame present at all times. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
4. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
5. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
8. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
9. The flares shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
10. The flares shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
11. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
12. The flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
14. The flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
15. Each flare shall operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any two consecutive hours. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
16. H₂S content of digester gas flared shall not exceed 200 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
18. Net heating value of the gas being combusted shall be 200 Btu/scf or greater. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
19. Emission rates from the flares shall not exceed any of the following limits: NO_x (as NO₂) - 0.068 lb/MMBtu; VOC (as methane) - 0.063 lb/MMBtu; CO - 0.370 lb/MMBtu; or PM₁₀ - 0.026 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The net heating value of the gas being combusted by the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
21. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
22. The operator shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, whichever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time [District Rule 4311] Federally Enforceable Through Title V Permit
23. Upon request, the operator shall make available to the APCO compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18(c)(3) through (c)(5). [District Rule 4311] Federally Enforceable Through Title V Permit
24. The operator shall submit an updated flare minimization plan every five years after the initial submittal, or prior to installation of new or modified equipment, pursuant to Section 6.5 of Rule 4311. [District Rule 4311] Federally Enforceable Through Title V Permit
25. The following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request: a copy of any compliance determination conducted pursuant to Section 6.4.1 of Rule 4311, a copy of the approved flare minimization plan pursuant to Section 6.5 of Rule 4311, and a copy of the annual reports submitted to the APCO pursuant to Section 6.2 of Rule 4311. [District Rule 4311] Federally Enforceable Through Title V Permit
26. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

DRAFT

ATTACHMENT B

Emissions Increases

The proposed modifications did not result in any emissions increases.

ATTACHMENT C

Authority to Construct

S-984-5-3



AUTHORITY TO CONSTRUCT

PERMIT NO: S-984-5-3

ISSUANCE DATE: 02/05/2013

LEGAL OWNER OR OPERATOR: VISALIA WASTEWATER TREATMENT
MAILING ADDRESS: VISALIA WASTEWATER TREATMENT PLANT
7579 AVENUE 288
VISALIA, CA 93277

LOCATION: 7579 AVENUE 288
VISALIA, CA 93277

EQUIPMENT DESCRIPTION:

MODIFICATION OF SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES: ADD PERMIT CONDITION TO LIMIT FLARED GAS THROUGHPUT TO 357,000 SCF PER CALENDAR DAY FOR EXEMPTION FROM RULE 4311 MONITORING AND REPORTING REQUIREMENTS.

CONDITIONS

1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. Combustion of flare gas shall not exceed the combined design capacity of 357,000 scf per calendar day. [District Rule 4311] Federally Enforceable Through Title V Permit
3. The flame shall be present at all times when combustible gases are vented through the flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
4. The flares shall operate with a pilot flame present at all times. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
5. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (661) 392-5500 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DAVID WARNER, Director of Permit Services

S-984-5-3, Feb 5 2013 8:25AM - AJYABEV : Joint Inspection NOT Required

6. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
8. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
9. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
10. The flares shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
11. The flares shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
12. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
13. The flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
14. The flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
15. The flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
16. Each flare shall operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any two consecutive hours. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
17. H₂S content of digester gas flared shall not exceed 200 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
19. Net heating value of the gas being combusted shall be 200 Btu/scf or greater. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
20. Emission rates from the flares shall not exceed any of the following limits: NO_x (as NO₂) - 0.068 lb/MMBtu; VOC (as methane) - 0.063 lb/MMBtu; CO - 0.370 lb/MMBtu; or PM₁₀ - 0.026 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The net heating value of the gas being combusted by the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
22. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

23. The operator shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, whichever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time [District Rule 4311] Federally Enforceable Through Title V Permit
24. Upon request, the operator shall make available to the APCO compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18(c)(3) through (c)(5). [District Rule 4311] Federally Enforceable Through Title V Permit
25. The operator shall submit an updated flare minimization plan every five years after the initial submittal, or prior to installation of new or modified equipment, pursuant to Section 6.5 of Rule 4311. [District Rule 4311] Federally Enforceable Through Title V Permit
26. The following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request: a copy of any compliance determination conducted pursuant to Section 6.4.1 of Rule 4311, a copy of the approved flare minimization plan pursuant to Section 6.5 of Rule 4311, and a copy of the annual reports submitted to the APCO pursuant to Section 6.2 of Rule 4311. [District Rule 4311] Federally Enforceable Through Title V Permit
27. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] Federally Enforceable Through Title V Permit

Visalia Wastewater Treatment

Facility ID: S-984

Project #: S-1130470

ATTACHMENT D

Existing Permit to Operate

S-984-5-2

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-984-5-2

EXPIRATION DATE: 03/31/2017

EQUIPMENT DESCRIPTION:

SEVEN WASTEWATER TREATMENT DIGESTER UNITS WITH ONE 5.0 MMBTU/HR AND ONE 9.9 MMBTU/HR EXCESS METHANE NON-ASSISTED GAS FLARES

PERMIT UNIT REQUIREMENTS

1. The flame shall be present at all times when combustible gases are vented through the flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
2. The flares shall operate with a pilot flame present at all times. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
3. Flare outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
4. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Open flares in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311] Federally Enforceable Through Title V Permit
7. Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging. [District Rule 4311] Federally Enforceable Through Title V Permit
8. The flares shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
9. The flares shall have a diameter of 3 inches or greater, have a minimum hydrogen content of 8.0% by volume, and be designed for and operated with an exit velocity less than 122 ft/sec and less than the velocity V_{max} , as determined by the equation specified in paragraph 40 CFR 60.18 (c)(3)(i)(A). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
10. The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
11. The flares shall be operated with an exit velocity less than 60 ft/sec, except as provided in 40 CFR 60.18 (c)(4)(ii) and (iii). [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
12. The flares may be operated with an exit velocity equal to or greater than 60 ft/sec, but less than 400 ft/sec, if the net heating value of the gas being combusted is greater than 1,000 Btu/scf. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The flares may be operated with an exit velocity less than the velocity V_{max} , as determined by the methods specified in 40 CFR 60.18 (f)(5), and less than 400 ft/sec. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
14. Each flare shall operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any two consecutive hours. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
15. H₂S content of digester gas flared shall not exceed 200 ppmv. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Air-assisted or steam-assisted flares shall only be used when the net heating value of the gas being combusted is 300 Btu/scf or greater. Non-assisted flares shall only be used when the net heating value of the gas being combusted is 200 Btu/scf or greater. [40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
17. Net heating value of the gas being combusted shall be 200 Btu/scf or greater. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
18. Emission rates from the flares shall not exceed any of the following limits: NO_x (as NO₂) - 0.068 lb/MMBtu; VOC (as methane) - 0.063 lb/MMBtu; CO - 0.370 lb/MMBtu; or PM₁₀ - 0.026 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The net heating value of the gas being combusted by the flare shall be calculated pursuant to 40 CFR 60.18(f)(3) or by using EPA Method 18, ASTM D1946, and ASTM D2382 if published values are not available or cannot be calculated. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
20. Visible emissions monitoring shall be conducted at least annually, using EPA Method 22. [District Rule 4311 and 40 CFR 60 Subpart A] Federally Enforceable Through Title V Permit
21. The permittee shall maintain, and make available for District inspection, all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 4311] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT E

Application

San Joaquin Valley Air Pollution Control District

www.valleyair.org

RECEIVED

FEB 26 2013

Permit Application For:

Permits Services
SJVAPCD

[] ADMINISTRATIVE AMENDMENT [X] MINOR MODIFICATION [] SIGNIFICANT MODIFICATION

1. PERMIT TO BE ISSUED TO: City of Visalia Wastewater Treatment Plant	
2. MAILING ADDRESS: STREET/P.O. BOX: <u>7579 Avenue 288</u> CITY: <u>Visalia</u> STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>93277</u>	
3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED: STREET: <u>7579 Avenue 288</u> CITY: <u>Visalia</u> NW <u> </u> ¼ SECTION <u>6</u> TOWNSHIP <u>19S</u> RANGE <u>24E</u>	INSTALLATION DATE: 1973
4. GENERAL NATURE OF BUSINESS: Wastewater Treatment	
5. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary) Permit S-984-5-3 Modification of permit to limit flared gas throughput to 357,000 scf per calendar day for exemption from Rule 4311 Monitoring and Reporting requirements.	
6. TYPE OR PRINT NAME OF APPLICANT: Jeffrey B. Misenhimer	TITLE OF APPLICANT: Plant Superintendent
7. SIGNATURE OF APPLICANT: 	DATE: <u>02/20/2013</u>
	PHONE: (559) 713-4176 FAX: (559) 713-4826 EMAIL: jmisenhimer@ci.visalia.ca.us

For APCD Use Only:

DATE STAMP	FILING FEE RECEIVED: \$ _____ CHECK#: _____ DATE PAID: _____ PROJECT NO: <u>S-1130470</u> FACILITY ID: <u>S-984</u>
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**San Joaquin Valley
Unified Air Pollution Control District**

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

- SIGNIFICANT PERMIT MODIFICATION ADMINISTRATIVE
 MINOR PERMIT MODIFICATION AMENDMENT

COMPANY NAME: <u>City of Visalia Wastewater Plant</u>	FACILITY ID: <u>S-984</u>
1. Type of Organization: <input type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input checked="" type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
2. Owner's Name: <u>City of Visalia</u>	
3. Agent to the Owner: <u>Jeffrey B. Misenhimer</u>	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Jeffrey B. Misenhimer
Signature of Responsible Official

02/20/2013
Date

Jeffrey B. Misenhimer
Name of Responsible Official (please print)

Superintendent
Title of Responsible Official (please print)