



APR 14 2015

Ms. Kara J. Miles
Delano Energy Center, LLC
650 Bercut Drive, Suite A
Sacramento, CA 95811-0100

**Re: Notice of Preliminary Decision - Federally Mandated Operating Permit
District Facility # S-6662
Project # S-1134524**

Dear Ms. Miles:

Enclosed for your review is the District's analysis of Delano Energy Center, LLC's application for the Federally Mandated Operating Permit for its operation at Section 32, Township 24S, Range 25E Delano, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

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

Sincerely,


Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Mike Tollstrup, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via email

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SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

PROPOSED ENGINEERING EVALUATION

DELANO ENERGY CENTER, LLC S-6662

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**ATTACHMENT A – DETAILED FACILITY LIST
ATTACHMENT B – DRAFT TITLE V OPERATING PERMIT
ATTACHMENT C – CURRENT SJVUAPCD PERMIT**

TITLE V APPLICATION REVIEW
Simple-Cycle Peak Demand Power Plant

Project #: S-1134524
Deemed Complete: December 6, 2013

Engineer: Gurpreet Brar
Date: April 2, 2015

Facility Number: S-6662
Facility Name: Delano Energy Center, LLC
Mailing Address: 650 Bercut Drive, Suite A
Sacramento, CA 95811-0100

Contact Name: Kara J. Miles
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Responsible Official: Kara J. Miles
Title: President, Delano Energy Center, LLC

I. PROPOSAL

Delano Energy Center, LLC is proposing that an initial Title V permit be issued for its existing power generating facility in Delano, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

II. FACILITY LOCATION

Delano Energy Center, LLC is located North of County Line Road, East of Casey Avenue Extension within Section 32, Township 24S, Range 25E Delano, CA.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment A.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant has not chosen to use any model general permit templates.

V. SCOPE OF EPA AND PUBLIC REVIEW

The applicant has not requested to utilize any model general permit templates. Therefore, the proposed permit in its entirety is subject to EPA and public review.

VI. APPLICABLE REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES

The applicant has not proposed to utilize any model general permit templates. All applicable requirements are explicitly addressed in the permit outside of the general permit templates.

VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

District Rule 1080 – Stack Monitoring (Amended December 17, 1992)

District Rule 1081 – Source Sampling (amended December 16, 1993)

District Rule 1100 – Equipment Breakdown (amended December 17, 1992)

District Rule 1160 – Emission Statements (amended November 18, 1992)

District Rule 2010 – Permits Required (amended December 17, 1992)

District Rule 2020 – Exemptions (amended December 20, 2007), SIP version of the Rule ⇒ (amended December 18, 2014)

District Rule 2031 – Transfer of Permits (amended December 17, 1992)

District Rule 2040 – Applications (amended December 17, 1992)

District Rule 2070 – Standards for Granting Applications (amended December 17, 1992)

District Rule 2080 – Conditional Approval (amended December 17, 1992)

District Rule 2201 – New and Modified Stationary Source Review Rule (amended December 18, 2008), SIP version of the Rule ⇒ (amended April 21, 2011)

District Rule 2410 – Prevention of Significant Deterioration (adopted June 16, 2011)

- District Rule 2520 – Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4101 – Visible Emissions (amended February 17, 2005)
- District Rule 4201 – Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4601 – Architectural Coatings (amended December 17, 2009)
- District Rule 4703 – Stationary Gas Turbines (September 20, 2007)
- District Rule 4801 – Sulfur Compounds (amended December 17, 1992), Non SIP replacement for Kern County Rule 406)
- District Rule 8011 – General Requirements (amended August 19, 2004)
- District Rule 8021 – Construction, Demolition Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031 – Bulk Materials (amended August 19, 2004)
- District Rule 8041 – Carryout and Trackout (amended August 19, 2004)
- District Rule 8051 – Open Areas (amended August 19, 2004)
- District Rule 8061 – Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071 – Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR 60 Subpart GG – Standards of Performance for Stationary Gas Turbines
- 40 CFR Part 61, Subpart M – National Emission Standards for Asbestos
- 40 CFR 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines
- 40 CFR 63 Subpart YYYY – National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines
- 40 CFR Part 64 – Compliance Assurance Monitoring (CAM)
- 40 CFR Part 82, Subpart B and F – Stratospheric Ozone
- 40 CFR Part 72 – Acid Rain Program

VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as Federally Enforceable Through Title V Permit.

This facility is subject to the following rules that are not currently federally enforceable:

1. District Rule 4102 – Nuisance (amended December 17, 1992)

This rule prevents the discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.

a. S-6662-0-1: Facility-Wide Requirements

- Condition 57 of the requirements of the facility-wide permit ensures compliance with this rule.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

The applicant is not proposing to use a general permit template for this category. Compliance with all federally applicable requirements will be addressed in the following section of this engineering evaluation.

B. Requirements Not Addressed by Model General Permit Templates

1. District Rule 1080 – Stack Monitoring

This rule grants the APCO the authority to request the installation, use, maintenance, and inspection of continuous monitoring equipment. The general, source and pollutant specific requirements for continuous monitoring equipment are defined. This rule also specifies the performance standards for the equipment and administrative recordkeeping, reporting, and violation and equipment breakdown notification requirements.

Section 6.0 specifies the standards of performance for continuous monitoring equipment.

Section 6.3 requires that calibration gas mixtures shall meet the specifications in 40 CFR, Part 51, Appendix P, Section 3.3, and Part 60, Appendix B, Performance Specification 2, Section 2.1, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the Environmental Protection Agency.

Section 6.4 requires that cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4, 3.4.1 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the Environmental Protection Agency.

Section 6.5 requires that continuous SO₂ and NO_x monitors meet the applicable performance specification requirements in 40 CFR, Part 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the Environmental Protection Agency.

Section 6.6 requires that the continuous CO₂ and O₂ monitoring system shall meet the performance specification requirements in 40 CFR, Part 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the Environmental Protection Agency.

Section 7.0 specifies the data reduction and recordkeeping requirements. Section 7.1 requires that a person operating or using a stack monitoring system shall, upon written notice from the APCO, provide a summary of the data obtained from such systems. This summary of data shall be in the form and the manner prescribed by the APCO.

Section 7.2 requires that data shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement of the District, the ARB and the Environmental Protection Agency.

Section 7.3 requires that records from the monitoring equipment shall be kept by the owner for a period of two (2) years. The records shall be in permanent form, shall be suitable for inspection and shall be made available to the ARB and the District upon request. The records shall at a minimum include:

7.3.1 - The occurrence and duration of any start-up, shutdown or malfunction in the operation of any affected facility;

7.3.2 - Performance testing, evaluations, calibrations, checks, adjustments and maintenance of any continuous emission monitors that have been installed pursuant to this rule; and

7.3.3 - Emission measurements.

Section 8.0 requires that owners or operators subject to Section 4.0 shall submit a written report for each calendar quarter to the APCO. The report is due by the 30th day following the end of the calendar quarter and shall include:

8.1 - Time intervals, data and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions taken and preventive measures adopted.

8.2 - Averaging period used for data reporting corresponding to averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant/source category in question.

8.3 - Time and date of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs and adjustments.

8.4 - A negative declaration when no excess emissions occurred.

8.5 - Reports on opacity monitors giving the number of three (3) minute periods during which the average opacity exceeded the standard for each hour of operation. The averages may be obtained by integration over the averaging period or by arithmetically averaging a minimum of four (4) equally spaced instantaneous opacity measurements per minute. Any time period exempted shall be considered before determining the excess averages of opacity.

S-6662-2-1: 47.6 MW Nominally Rated Simple-Cycle Peak-Demand Power Generating System consisting of a General Electric Model LM6000 PC Sprint Natural Gas-Fired Combustion Turbine

- Conditions 7, 8, 9, 10, 31, 32, 33, 34 and 40 of the requirements for these permit units ensure compliance with this rule.

2. District Rule 1081 – Source Sampling

The purpose of this rule is to ensure that any source operation that emits or may emit air contaminants provides adequate and safe facilities for use in sampling to determine compliance. This rule also specifies methods and procedures for source testing, sample collection, and compliance determination.

Section 3.1 requires that sampling port locations must be determined according to criteria in the California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing.

Section 3.2 requires that sampling platforms must be constructed according to specifications shown in the Air Resources Board publication entitled Supplement to Stationary Source Test Methods, Volume I, Appendix A, page 1-A-15.

Section 3.3 requires that in addition to the general industry safety orders of the State of California Title 14, Number 32776, Chapter 4, Subchapter 7, pertaining to ladders, all ladders accessing sampling platforms on any stack, chimney, or other structure will be caged and equipped with rest platforms at 20 foot intervals.

Section 4.0 requires that the owner of such a source operation, when requested by the APCO, shall provide records or other information, which will enable the APCO to determine when a representative sample can be taken. In addition, upon the request of the APCO and as directed by him, the owner of such a source operation shall collect, have collected, or allow the APCO to collect, a source sample.

Section 5.0 requires that the applicable test method, if not specified in the rule, shall be conducted in accordance with Title 40 CFR Subpart 60 Appendix A, except PM₁₀ for compliance with Rule 2201 (New and Modified Stationary Source Review) requirements shall be conducted in accordance with Title 40 CFR Subpart 51, Appendix M, Method 201 or 201A. Where no test method exists in the preceding references for a source type, source sampling shall be conducted in accordance with CARB approved methods.

Section 6.1 requires that for the purpose of determining compliance with an applicable standard or numerical limitation, the arithmetic mean of three (3) test runs shall apply, unless two (2) of the three (3) results are above the applicable limit. If two (2) of three (3) runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit.

Section 6.2 requires that a scheduled source test may not be discontinued solely due to the failure of one or more runs to meet applicable standards.

Section 6.3 requires that In the event that a sample is accidentally lost or conditions occur in which one (1) of the three (3) runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions presenting a hazard to the sampling team, or other circumstances beyond the owner or operators control, upon the APCO's approval, compliance may be determined using the arithmetic mean of the other two (2) runs.

Section 7.1 requires that the District must be notified 30 days prior to any compliance source testing and the owner shall submit a source test plan for District approval 15 days prior to source sampling.

Section 7.2 requires that source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel.

Section 7.3 requires that Source test reports must be submitted to the District within 60 days of completion of field-testing. Source tests must be submitted for all District authorized compliance source tests regardless of pass, fail or reschedule because of failure, status. A District authorized compliance source test shall not be discontinued solely due to the failure of one (1) or more runs to meet applicable standards.

Source testing requirements for the units at this site, if applicable, are addressed by the prohibitory rules. Applicable requirements from this Rule are addressed by the applicable prohibitory rules. Therefore, the requirements of this rule will not be further discussed.

S-6662-2-1: 47.6 MW Nominally Rated Simple-Cycle Peak-Demand Power Generating System consisting of a General Electric Model LM6000 PC Sprint Natural Gas-Fired Combustion Turbine

- Conditions 11, 25 to 28 of the requirements for these permit units ensure compliance with this rule.

3. District Rule 1100 – Equipment Breakdowns

This rule defines a breakdown condition and the procedures to follow if one occurs. The corrective action, the issuance of an emergency variance, and the reporting requirements are also specified. Sections 6.0 and 7.0 prescribe breakdown procedures and reporting requirements. District Rule 1100 has been submitted to the EPA to replace Kings County Rule 111 that is in the State Implementation Plan (SIP). District Rule 1100 is at least as stringent as the county SIP rule addressing breakdowns, as shown in following.

Comparison of District Rule 1100 to Kern County Rule 111		
REQUIREMENTS	District Rule 1100	Kern County Rule 110
A breakdown occurrence must be reported as soon as reasonably possible but no later than 1 hour after detection.	✓	(allows 2 hrs.)
A variance must be obtained if the occurrence will last longer than a production run or 24 hours, whichever is shorter (96 hours for CEM systems).	✓	✓
A report must be submitted to the APCO within 10 days of the correction of the breakdown occurrence which includes:	✓	✓
A statement that the breakdown condition has been corrected, together with the date of correction and proof of compliance.	✓	✓
A specific statement of the reason(s) or cause(s) for the occurrence sufficient to enable the APCO to determine whether the occurrence was a breakdown condition.	✓	✓
A description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future.	✓	✓
Pictures of the equipment or controls which failed if available.	✓	✓

S-6662-0-1: Facility-Wide Requirements

- Conditions 1, 2, and 11 of the requirements of the facility-wide permit ensure compliance with this rule.

4. District Rule 1160 – Emission Statements

The purpose of this rule is to provide the District with an accurate accounting of emissions from significant sources with which the District and California EPA Air Resources Board (ARB) can compile an accurate inventory. §5.0 requires the owner or operator of any stationary source to provide the District with a written emissions statement showing actual emissions of reactive organic gases (ROGs) and nitrogen oxides (NOx) from that source. The District waives this requirement for sources emitting less than 25 tons per year of these pollutants if the District provides the Air Resources Board (ARB) with an emissions inventory of sources emitting greater than 10 tons per year of NOx or ROGs based on the use of emission factors acceptable to the ARB.

S-6662-0-1: Facility-Wide Requirements

- Condition 3 of the requirements of the facility-wide permit ensures compliance with this rule.

5. District Rule 2010 – Permits Required

District Rule 2010 §3.0 and §4.0 require any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate or reduce or control the issuance of air contaminants, to obtain an Authority to Construct (ATC) from the District in advance. The ATC will remain in effect until the Permit to Operate (PTO) is granted.

S-6662-0-1: Facility-Wide Requirements

- Condition 4 of the requirements of the facility-wide permit ensures compliance with this rule.

6. District Rule 2020 – Exemptions

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions. The amendments to this rule do not have any effect on current permit requirements and will therefore not be addressed in this evaluation.

7. District Rule 2031 – Transfer of Permits

District Rule 2031 prohibits the transfer of Permits to Operate or Authorities to Construct from one location to another, from one piece of equipment to another, or from one person to another unless a new application is filed with and approved by the District.

S-6662-0-1: Facility-Wide Requirements

- Condition 6 of the requirements of the facility-wide permit ensures compliance with this rule.

8. District Rule 2040 – Applications

The purpose of this rule is to explain the procedures for filing, denying, and appealing the denial of applications for an Authority to Construct or a Permit to Operate.

S-6662-0-1: Facility-Wide Requirements

- Condition 7 of the requirements of the facility-wide permit ensures compliance with this rule.

9. District Rule 2070 – Standards for Granting Applications

District Rule 2070 requires sources to be constructed and operated as specified in the Authority to Construct and the Permit to Operate and requires that source comply with the applicable requirements of District Rule 2201 (New and Modified Stationary Source Review Rule), District Rule 4001 (New Source Performance Standards), and District Rule 4002 (National Emissions Standards for Hazardous Air Pollutants). District Rule 2070 also explains the standards by which an APCO may deny an application for an Authority to Construct or Permit to Operate.

S-6662-0-1: Facility-Wide Requirements

- Condition 5 of the requirements of the facility-wide permit ensures compliance with this rule.

10. District Rule 2080 – Conditional Approval

The purpose of this rule is to grant authority to the APCO to issue or revise specific written conditions on an Authority to Construct or a Permit to Operate to ensure compliance with air contaminant emission standards or limitations.

S-6662-0-1: Facility-Wide Requirements

- Condition 5 of the requirements of the facility-wide permit ensures compliance with this rule.

11. District Rule 2201 - New and Modified Stationary Source Review Rule (District NSR Rule)

Permit units S-6662-1 was subject to the District Rule 2201 upon application for Authority to Construct (ATC). In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting Permit to Operate (PTO) were addressed to define how NSR permit terms should be incorporated into the Title V permit.

Please note, the original ATC project C-1103269 identified that the emissions calculations should be based on three hour averages only for steady state emissions (BACT requirement). As such, the startup and shutdown period emission calculations on the draft PTO have been corrected from "three hour averages" to "averaged over the length of the startup or shutdown." This update to the startup/shutdown calculation will now correspond with the Rule 4703 requirements that limit startup and shutdown events to 2 hours maximum per day, as well as fall in line with the original BACT intent of the ATC permitting action.

- Conditions 3 to 6, 11, 13, 14, 15, 17, 19 to 22, 40, 41, 43, 44 and 46 of draft PTO '2-1 ensure compliance with this rule.

12. District Rule 2410 – Prevention of Significant Deterioration

The prevention of significant deterioration (PSD) program is a preconstruction permitting program for new major stationary sources and major modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant. The provisions of this rule apply to any source and the owner or operator of any source subject to any requirement under Title 40 Code of Federal Regulations (40 CFR) Part 52.21 as incorporated into this rule.

There are no PSD requirements for this source. Therefore, the facility is

not subject to this rule and no further discussion is required.

13. District Rule 2520 – Federally Mandated Operating Permits

The purpose of this rule is to provide for the following: an administrative mechanism for issuing operating permits for new and modified sources of air contaminants in accordance with requirements of 40 CFR Part 70; an administrative mechanism for issuing renewed operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70; an administrative mechanism for revising, reopening, revoking, and terminating operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70; an administrative mechanism for incorporating requirements authorized by preconstruction permits issued under District Rule 2201 (New and Modified Stationary Source Review) in a Part 70 permit as administrative amendments, provided that such permits meet the necessary procedural and compliance requirements.

Section 5.2 of District Rule 2520 requires that permittees submit applications for Title V permit renewal at least six months prior to permit expiration.

Section 9.3.2 of District Rule 2520 requires that each permit contain periodic monitoring or testing to ensure compliance with federally enforceable emission limits or other requirements if none is associated with the applicable requirement. Recordkeeping may be sufficient to meet the requirements of this section. Monitoring and recordkeeping requirements have been incorporated into the permit as appropriate.

Section 9.4 contains requirements to incorporate all applicable recordkeeping requirements into the Title V permit. This section also specifies records of any required monitoring and support data be kept for a period of five years.

Section 9.13.1 of District Rule 2520 requires any report or document submitted under a permit requirement or a request for information by the District or EPA contain a certification by a responsible official as to truth, accuracy, and completeness.

Section 9.16 of District Rule 2520 requires that the permittee submit certification of compliance with the terms and standards of Title V permits to the EPA and the District annually (or more frequently as required by the applicable requirement or the District).

Section 10.0 of District Rule 2520 requires any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification of truth, accuracy, and completeness by a responsible official.

S-6662-0-1: Facility-Wide Requirements

- Conditions 5, 8 through 19, 36 through 40, and 45 of the requirements of the facility-wide permit ensure compliance with this rule.

Greenhouse Gas Requirements

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

14. District Rule 4101 – Visible Emissions

The purpose of this rule is to prohibit the emissions of visible air contaminants to the atmosphere. Section 5.0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101. Pursuant to Section 4.12, this rule does not apply to emissions subject to or specifically exempt from District Regulation VIII – Fugitive PM₁₀ Prohibitions; therefore, this rule does not apply to emissions from on-field and off-field agricultural operations.

S-6662-0-1: Facility-Wide Requirements

- Condition 22 of the requirements of the facility-wide permit ensures compliance with this rule.

15. District Rule 4201 – Particulate Matter Concentration

The purpose of this rule is to protect the ambient air quality by establishing a particulate matter emission standard. Section 3.1 requires emissions to be at or below 0.1 grains of particulate matter per dry standard cubic foot of exhaust gas.

Natural Gas-Fired Turbine

$$\text{PM Conc. (gr/scf)} = \frac{(\text{PM emission rate}) \times (7000 \text{ gr/lb})}{(\text{Air flow rate}) \times (60 \text{ min/hr})}$$

PM₁₀ emission rate = 3.12 lb/hr. Assuming 100% of PM is PM₁₀
H₂O = 10.09%

Exhaust Gas Flow, acfm (wet) = 549,151¹

Exhaust Gas Flow, dscfm = 549,151 * [(100 – 10.09)/100] = 493,742

$$\text{PM Conc. (gr/scf)} = \frac{(3.12 \text{ lb/hr}) \times (7,000 \text{ gr/lb})}{(493,742 \text{ ft}^3/\text{min}) \times (60 \text{ min/hr})}$$

PM Conc. = 0.00072 gr/scf

As demonstrated above, the emissions concentration for the turbine is not expected to exceed the rule limit of 0.1 gr/dscf.

16. District Rule 4601 – Architectural Coatings

This rule limits the emissions of VOCs from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). This rule further specifies labeling requirements, coatings thinning recommendations, test methodology, and storage requirements.

S-6662-0-1: Facility-Wide Requirements

- Conditions 23 through 25 of the requirements of the facility-wide permit ensure compliance with this rule.

17. District Rule 4703 – Stationary Gas Turbines

The provisions of this rule apply to all stationary gas turbine systems, which are subject to District permitting requirements, and with ratings equal to or greater than 0.3 megawatt (MW) or a maximum heat input rating of more than 3,000,000 Btu per hour, except as provided in Section 4.0. The turbine in this project is subject to District permitting and maximum heat input rating is above 3 MMBtu/hr; therefore, this turbine is subject to the provisions of this rule.

¹ Worst-case exhaust gas flow occurs with an Ambient temperatures of 103°F and CTG air inlet chillers off.

The turbine is subject to the Tier 3 NO_x Compliance Limits per Section 5.1.3 and Table 5-3. Pursuant to the compliance schedule stated in section 7.3.2.4, all the turbines at the facility were required to comply with the Tier 3 standards by January 1, 2012. According to Row b of Table 5-3, NO_x emissions from pipeline gas turbines fired on gas fuel shall not exceed 8 ppmvd @ 15% O₂ during steady state operation and shall not exceed 12 ppmvd @ 15% O₂ during non-steady state operation.

Section 5.2, Table 5-4, requires that CO emissions from turbines, other than General Electric Frame 7, General Electric Frame 7 with Quiet Combustors, and Solar Saturn gas turbines < 2.0 MW powering centrifugal compressors, shall no exceed 200 ppmvd @ 15% O₂.

Section 5.3.1.1 specifies that the duration of each start-up or each shutdown shall not exceed two hours.

Section 6.2.1 requires the owner or operator to install, operate, and maintain continuous emissions monitoring equipment for NO_x and oxygen; or install and maintain an APCO-approved alternate monitoring.

Section 6.2.4 requires the owner or operator to maintain all records for a period of five years from the date of data entry and to make such records available to the APCO upon request.

Section 6.2.6 requires the owner or operator to maintain a daily log that includes local start-up time and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used.

Section 6.2.8 requires that the operator performing start-up or shutdown of a unit shall keep records of the duration of start-up or shutdown.

Section 6.2.12 requires the operator of a unit subject to subsection (b) of Table 5-3 to keep records of the date, time and duration of each steady state period and non-steady state period and the quantity of fuel used during each period.

Section 6.3 requires the owner or operator to perform annual source test to measure NO_x and CO emissions. Section 6.4 identifies various test methods to measure NO_x, CO, O₂, HHV and LHV of gaseous fuels.

S-6662-2-1: 47.6 MW Nominally Rated Simple-Cycle Peak-Demand Power Generating System consisting of a General Electric Model LM6000 PC Sprint Natural Gas-Fired Combustion Turbine

- Condition 6, 7, 13, 16, 18, 26, 28, 39 and 44 to 47 of the requirements for this permit unit ensures compliance with this rule.

18. District Rule 4801 – Sulfur Compounds

This rule limits the emissions of sulfur compounds, which would exist as a liquid or gas at standard conditions, exceeding in concentration at the point of discharge: two-tenths (0.2) percent by volume calculated as sulfur dioxide (SO₂), on a dry basis averaged over 15 consecutive minutes.

The rule has been submitted to the EPA to replace Kern County Rule 407, which is contained in the SIP. District Rule 4801 is as stringent as Kern County Rule 407, as shown on the following table:

Comparison of District Rule 4801 to Kern County Rule 407		
REQUIREMENTS	District Rule 4801	County Rule 407
A person shall not discharge into the atmosphere sulfur compounds exceeding in concentration at the point of discharge 0.2 percent by volume calculated as sulfur dioxide on a dry basis averaged over 15 consecutive minutes.	✓	✓
EPA Method 8 and ARB Method 1-100 shall be used to determine such emissions.	✓	

The turbines at this facility is required by permit condition to be fired solely on PUC-quality natural gas with a maximum sulfur content of 1.0 gr/100 scf (equivalent to a SO_x emission rate of 0.00285 lb/MMBtu). Using the ideal gas equation, the expected maximum sulfur compound emissions are calculated as follows:

$$\text{Volume SO}_2 = \frac{nRT}{P}$$

Where:

n = moles SO₂

T (Standard Temperature) = 60°F = 520°R

P (Standard Pressure) = 14.7 psi

$$R \text{ (Universal Gas Constant)} = \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ\text{R}}$$

EPA F-Factor = 8,578 dscf/MMBtu (corrected to 60 °F)

$$\frac{0.00285 \text{ lb} - \text{SO}_x}{\text{MMBtu}} \times \frac{\text{MMBtu}}{8,578 \text{ dscf}} \times \frac{1 \text{ lb} \cdot \text{mol}}{64 \text{ lb}} \times \frac{10.73 \text{ psi} \cdot \text{ft}^3}{\text{lb} \cdot \text{mol} \cdot ^\circ\text{R}} \times \frac{520^\circ\text{R}}{14.7 \text{ psi}} \times \frac{1,000,000 \cdot \text{parts}}{\text{million}} = 1.97 \frac{\text{parts}}{\text{million}}$$

$$\text{Sulfur Concentration} = 1.97 \frac{\text{parts}}{\text{million}} < 2,000 \text{ ppmv (or 0.2\%)}$$

Since the expected sulfur compounds emissions are less than 0.2% (2,000 ppmv), compliance with the requirements of this rule is expected.

19. District Rule 8011 – General Requirements

The purpose of Regulation VIII (Fugitive PM₁₀ Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM₁₀) by requiring actions to prevent, reduce, or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM₁₀ Nonattainment Areas. The rules are applicable to specified anthropogenic fugitive dust sources. Fugitive dust contains PM₁₀ and particles larger than PM₁₀. Controlling fugitive dust emissions when visible emissions are detected will not prevent all PM₁₀ emissions, but will substantially reduce PM₁₀ emissions.

The provisions of this rule are applicable to specified outdoor fugitive dust sources. The definitions, exemptions, requirements, administrative requirements, recordkeeping requirements, and test methods set forth in this rule are applicable to all Rules under Regulation VIII (Fugitive PM₁₀ Prohibitions) of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District.

The reference to this rule in condition #39 on current permit S-6662-2-0 has been removed and replaced by rule requirements on the facility-wide permit as given below:

S-6662-0-1: Facility-Wide Requirements

- Conditions 29 through 34 of the requirements of the facility-wide permit ensure compliance with this rule.

20. District Rule 8021 – Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.

This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfilling activities.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit Visible Dust Emissions (VDE) to 20% opacity or less. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

The reference to this rule in condition #37 and 39 on current permit S-6662-2-0 have been removed and replaced by rule requirements on the facility-wide permit as given below:

S-6662-0-1: Facility-Wide Requirements

- Condition 29 of the requirements of the facility-wide permit ensures compliance with this rule.

21. District Rule 8031 – Bulk Materials

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials. This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit Visible Dust Emissions (VDE) to 20% opacity or less or to comply with the conditions for a stabilized surface as defined in Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

S-6662-0-1: Facility-Wide Requirements

- Condition 30 of the requirements of the facility-wide permit ensures compliance with this rule.

22. District Rule 8041 – Carryout and Trackout

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout. This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that the owner or operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner or operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

S-6662-0-1: Facility-Wide Requirements

- Condition 31 of the requirements of the facility-wide permit ensures compliance with this rule.

23. District Rule 8051 – Open Areas

The purpose of this rule is to limit fugitive dust emissions from open areas. This rule applies to any open area having 3.0 acres or more of disturbed surface area that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner or operator shall implement one or more of the control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit Visible Dust Emissions (VDE) to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

S-6662-0-1: Facility-Wide Requirements

- Condition 32 of the requirements of the facility-wide permit ensures compliance with this rule.

24. District Rule 8061 – Paved and Unpaved Roads

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria. This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

S-6662-0-1: Facility-Wide Requirements

- Condition 33 of the requirements of the facility-wide permit ensures compliance with this rule.

25. District Rule 8071 – Unpaved Vehicle/Equipment Traffic Area

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas. Section 5.1 of this rule requires implementation of at least one specific control measure for Visible Dust Emissions whenever the Average Annual Daily Trips (AADT) will exceed 50, Vehicle Daily Trips (VDT) will exceed 150, VDT with 3 or more axles will exceed 25, or when 1000 or more vehicles will park or travel in the area in a given day. Specified control measures are:

1. Implement an APCO-approved Fugitive PM10 Management Plan as specified in Rule 8011 (General Requirements):
2. Watering
3. Uniform layer of washed gravel
4. Chemical/organic dust stabilizers/suppressants in accordance with the manufacturer's specifications;
5. Vegetative materials
6. Paving
7. Road mix
8. Any other method(s) that can be demonstrated to the satisfaction of the APCO that effectively limits VDE to 20% opacity and meets the conditions of a stabilized unpaved road.

Section 5.2 requires that one or more specific control measures be implemented on each day that 50 or more VDT, or 25 or more VDT with 3 or more axles, originates from within and remains exclusively within an unpaved vehicle/equipment traffic area.

Section 5.3 requires an owner/operator to restrict access and periodically stabilize a disturbed surface area whenever a site becomes inactive to comply with the conditions for a stabilized surface as defined in Rule 8011.

Section 6.0 of this rule requires the owner/operator to comply with the recordkeeping requirements specified in Rule 8011.

S-6662-0-1: Facility-Wide Requirements

- Condition 34 of the requirements of the facility-wide permit ensures compliance with this rule.

26. 40 CFR 60 Subpart GG – Standards of Performance for Stationary Gas Turbines Engines

40 CFR Part 60 Subpart GG applies to all stationary gas turbines with a heat input greater than 10.7 gigajoules per hour (10.2 MMBtu/hr), that commence construction, modification or reconstruction after 10/03/77. The turbines at this site are subject to the requirements of 40 CFR 60 Subpart KKKK. Pursuant to 40 CFR 60.4305(b), stationary turbines regulated by 40 CFR 60 Subpart KKKK are exempt from the requirements of Subpart GG. Therefore, 40 CFR 60 Subpart GG requirements are not applicable to the units at this facility. The reference to this rule as DR 4001 on current permit S-6662-2-0 has been replaced with 40 CFR 60 Subpart KKKK requirements.

27. 40 CFR Part 61, Subpart M – National Emission Standards for Asbestos

There are applicable requirements from the National Emissions Standards for Hazardous Air Pollutants that apply to all sources in general. The requirements of this subpart pertain to asbestos removal and disposal from renovated or demolished structures.

S-6662-0-1: Facility-Wide Requirements

- Condition 35 of the requirements of the facility-wide permit ensures compliance with this rule.

28. 40 CFR Part 63, Subpart KKKK – Standards of Performance for Stationary Gas Turbines

40 CFR Part 60 Subpart KKKK applies to all stationary gas turbines rated at greater than or equal to 10 MMBtu/hr that commence construction, modification, or reconstruction after February 18, 2005. Therefore, the requirements of this subpart apply to the gas turbine.

Subpart KKKK established requirements for nitrogen oxide (NO_x) and sulfur dioxide (SO_x) emissions.

Section 60.4320 - Standards for Nitrogen Oxides:

Paragraph (a) states that NO_x emissions shall not exceed the emission limits specified in Table 1 of this subpart. Paragraph (b) states that if you have two or more turbines that are connected to a single generator, each turbine must meet the emission limits for NO_x. Table 1 states that new turbines firing natural gas with a combustion turbine heat input at peak load of greater than 850 MMBtu/hr shall meet a NO_x emissions limit of 15 ppmvd @ 15% O₂ or 54 ng/J of useful output (0.43 lb/MWh). Table 1 also states that new turbines firing fuel other than natural gas with a combustion turbine heat input at peak load of greater than 850 MMBtu/hr shall meet a NO_x emissions limit of 42 ppmvd @ 15% O₂ or 1604 ng/J of useful output (1.3 lb/MWh).

The proposed combustion turbine's NO_x emission concentration has been limited to the following emissions limit:

NO_x : 2.5 ppmvd @ 15% O₂ (1-hour average) when firing on natural gas, except during startup/shutdown.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 18 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4330 - Standards for Sulfur Dioxide:

Paragraph (a) states that a turbine located in a continental area must comply with one of the following:

- (1) Operator must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output; or
- (2) Operator must not burn in the subject stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

The applicant is proposing to burn natural gas fuel with a maximum sulfur content of 1.0 grain/ 100 scf (0.00285 lb-SO₂/MMBtu. Therefore, the turbine will be operating in compliance with the SO_x emission requirements of this section. The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 12 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4335 – NO_x Compliance Demonstration, with Water or Steam Injection:

Paragraph (a) states that when a turbine is using water or steam injection to reduce NO_x emissions, the permittee must install, calibrate, maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water or steam to fuel being fired in the turbine when burning a fuel that requires water or steam injection for compliance.

Paragraph (b) states that alternatively, an operator may use continuous emission monitoring, as follows:

- (1) Install, certify, maintain and operate a continuous emissions monitoring system (CEMS) consisting of a NO_x monitor and a diluent gas (oxygen (O₂) or carbon dioxide (CO₂)) monitor, to determine hourly NO_x emission rate in parts per million (ppm) or pounds per million British thermal units (lb/MMBtu); and
- (2) For units complying with the output-based standard, install, calibrate, maintain and operate a fuel flow meter (or flow meters) to continuously measure the heat input to the affected unit; and
- (3) For units complying with the output based standard, install, calibrate, maintain and operate a watt meter (or meters) to continuously measure the gross electrical output of the unit in megawatt-hours; and
- (4) For combined heat and power units complying with the output-based standard, install, calibrate, maintain and operate meters for useful recovered energy flow rate, temperature, and pressure, to continuously measure the total thermal energy output in British thermal units per hour (Btu/hr).

The applicant proposes a turbine that utilizes water injection, and utilizes CEMS consisting of a NO_x monitor and an O₂ monitor to determine hourly NO_x emission rate in ppm that satisfies the requirements of this section.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 6 and 7 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4340 – NOX Compliance Demonstration, without Water or Steam Injection:

This section specifies the requirements for units not equipped with water or steam injection. As discussed above, the applicant is proposing to use steam injection to reduce NOX emissions in each of these turbines. Therefore, the requirements of this section are not applicable and no further discussion is required.

Section 60.4345 – CEMS Equipment Requirements:

Paragraph (a) states that each NOX diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to this part, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to this part is not required. Alternatively, a NOX diluent CEMS that is installed and certified according to appendix A of part 75 of this chapter is acceptable for use under this subpart. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBtu basis.

Paragraph (b) states that as specified in §60.13(e)(2), during each full unit operating hour, both the NOX monitor and the diluent monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required for each monitor to validate the NOX emission rate for the hour.

Paragraph (c) states that each fuel flowmeter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions. Alternatively, with state approval, fuel flowmeters that meet the installation, certification, and quality assurance requirements of appendix D to part 75 of this chapter are acceptable for use under this subpart.

Paragraph (d) states that each watt meter, steam flow meter, and each pressure or temperature measurement device shall be installed, calibrated, maintained, and operated according to manufacturer's instructions.

Paragraph (e) states that the owner or operator shall develop and keep on-site a quality assurance (QA) plan for all of the continuous monitoring equipment described in paragraphs (a), (c), and (d) of this section. For the CEMS and fuel flow meters, the owner or operator may, with state approval, satisfy the requirements of this paragraph by implementing the QA program and plan described in section 1 of appendix B to part 75 of this chapter.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 7 and 8 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4350 – CEMS Data and Excess NO_x Emissions:

Section 60.4350 states that for purposes of identifying excess emissions:

(a) All CEMS data must be reduced to hourly averages as specified in §60.13(h).

(b) For each unit operating hour in which a valid hourly average, as described in §60.4345(b), is obtained for both NO_x and diluent monitors, the data acquisition and handling system must calculate and record the hourly NO_x emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of this part. For any hour in which the hourly average O₂ concentration exceeds 19.0 percent O₂ (or the hourly average CO₂ concentration is less than 1.0 percent CO₂), a diluent cap value of 19.0 percent O₂ or 1.0 percent CO₂ (as applicable) may be used in the emission calculations.

(c) Correction of measured NO_x concentrations to 15 percent O₂ is not allowed.

(d) If you have installed and certified a NO_x diluent CEMS to meet the requirements of part 75 of this chapter, states can approve that only quality assured data from the CEMS shall be used to identify excess emissions under this subpart. Periods where the missing data substitution procedures in subpart D of part 75 are applied are to be reported as monitor downtime in the excess emissions and monitoring performance report required under §60.7(c).

(e) All required fuel flow rate, steam flow rate, temperature, pressure, and megawatt data must be reduced to hourly averages.

(f) Calculate the hourly average NO_x emission rates, in units of the emission standards under §60.4320, using either ppm for units complying with the concentration limit or the equations 1 (simple cycle turbines) or 2 (combined cycle turbines) listed in §60.4350, paragraph (f).

The facility is proposing to monitor the NO_x emissions rates from the turbine with a CEMS. The CEMS system will be used to determine if, and when, any excess NO_x emissions are released to the atmosphere from the turbine exhaust stack. The CEMS will be operated in accordance with the methods and procedures described above. Therefore, the proposed turbine will be operating in compliance with the requirements of this section. The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 33, 35 and 36 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4355 – Parameter Monitoring Plan:

This section sets forth the requirements for operators that elect to continuously monitor parameters in lieu of installing a CEMS for NO_x emissions. As discussed above, the facility has installed CEMS on the turbine that will directly measure NO_x emissions. Therefore, the requirements of this section are not applicable and no further discussion is required.

Sections 60.4360, 60.4365 and 60.4370 – Monitoring of Fuel Sulfur Content:

Section 60.4360 states that an operator must monitor the total sulfur content of the fuel being fired in the turbine, except as provided in §60.4365. The sulfur content of the fuel must be determined using total sulfur methods described in §60.4415. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than half the applicable limit, ASTM D4084, D4810, D5504, or D6228, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17), which measure the major sulfur compounds, may be used.

Section 60.4365 states that an operator may elect not to monitor the total sulfur content of the fuel combusted in the turbine, if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for units located in continental areas and 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for units located in noncontinental areas or a continental area that the Administrator determines does not have access to natural gas and that the removal of sulfur compounds would cause more environmental harm than benefit. One of the following sources of information must be used to make the required demonstration:

- (a) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil use in continental areas is 0.05 weight percent (500 ppmw) or less and 0.4 weight percent (4,000 ppmw) or less for noncontinental areas, the total sulfur content for natural gas use in continental areas is 20 grains of sulfur or less per 100 standard cubic feet and 140 grains of sulfur or less per 100 standard cubic feet for noncontinental areas, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas and has potential sulfur emissions of less than less than 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas; or
- (b) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input for continental areas or 180 ng SO₂/J (0.42 lb SO₂/MMBtu) heat input for noncontinental areas. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 29 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4370 states that the frequency of determining the sulfur content of the fuel must be as follows:

- (a) *Fuel oil.* For fuel oil, use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to part 75 of this chapter (*i.e.*, flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).
- (b) *Gaseous fuel.* If you elect not to demonstrate sulfur content using options in §60.4365, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day.
- (c) *Custom schedules.* Notwithstanding the requirements of paragraph (b) of this section, operators or fuel vendors may develop custom schedules for determination of the total sulfur content of gaseous fuels, based on the design and operation of the affected facility and the characteristics of the fuel supply. Except as provided in paragraphs (c)(1) and (c)(2) of this section, custom schedules shall be substantiated with data and shall be approved by the Administrator before they can be used to comply with the standard in §60.4330.

When actually required to physically monitor the sulfur content in the fuel burned in the turbine, the District and EPA have previously approved a custom monitoring schedule of at least one per week. Then, if compliance with the fuel sulfur content limit is demonstrated for eight consecutive weeks, the monitoring frequency shall be at least once every six months. If any six month monitoring period shows an exceedance, weekly monitoring shall resume. HECA is proposing to follow this same pre-approved fuel sulfur content monitoring scheme for this turbine. The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 29 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4380 – Excess NO_x Emissions:

Section 60.4380 establishes reporting requirements for periods of excess emissions and monitor downtime. Paragraph (a) lists requirements for operators choosing to monitor parameters associated with water or steam to fuel ratios. As discussed above, HECA is not proposing to monitor parameters associated with water or steam to fuel ratios to predict what the NO_x emissions from the turbines will be. Therefore, the requirements of this paragraph are not applicable and no further discussion is required.

Paragraph (b) states that for turbines using CEMS:

- (1) An excess emissions is any unit operating period in which the 4-hour or 30-day rolling average NO_x emission rate exceeds the applicable emission limit in §60.4320. For the purposes of this subpart, a "4-hour rolling average NO_x emission rate" is the arithmetic average of the average NO_x emission rate in ppm or ng/J (lb/MWh) measured by the continuous emission monitoring equipment for a given hour and the three unit operating hour average NO_x emission rates immediately preceding that unit operating hour. Calculate the rolling average if a valid NO_x emission rate is obtained for at least 3 of the 4 hours. For the purposes of this subpart, a "30-day rolling average NO_x emission rate" is the arithmetic average of all hourly NO_x emission data in ppm or ng/J (lb/MWh) measured by the continuous emission monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day. A new 30-day average is calculated each unit operating day as the average of all hourly NO_x emissions rates for the preceding 30 unit operating days if a valid NO_x emission rate is obtained for at least 75 percent of all operating hours.
- (2) A period of monitor downtime is any unit operating hour in which the data for any of the following parameters are either missing or invalid: NO_x concentration, CO₂ or O₂ concentration, fuel flow rate, steam flow rate, steam temperature, steam pressure, or megawatts. The steam flow rate, steam temperature, and steam pressure are only required if you will use this information for compliance purposes.
- (3) For operating periods during which multiple emissions standards apply, the applicable standard is the average of the applicable standards during each hour. For hours with multiple emissions standards, the applicable limit for that hour is determined based on the condition that corresponded to the highest emissions standard.

Paragraph (c) lists requirements for operators who choose to monitor combustion parameters that document proper operation of the NO_x emission controls. HECA is not proposing to monitor combustion parameters that document proper operation of the NO_x emission controls. Therefore, the requirements of this paragraph are not applicable and no further discussion is required.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 35 and 43 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4385 – Excess SO_x Emissions:

Section 60.4385 states that if an operator chooses the option to monitor the sulfur content of the fuel, excess emissions and monitoring downtime are defined as follows:

- (a) For samples of gaseous fuel and for oil samples obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the combustion turbine exceeds the applicable limit and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit.
- (b) If the option to sample each delivery of fuel oil has been selected, you must immediately switch to one of the other oil sampling options (i.e., daily sampling, flow proportional sampling, or sampling from the unit's storage tank) if the sulfur content of a delivery exceeds 0.05 weight percent. You must continue to use one of the other sampling options until all of the oil from the delivery has been combusted, and you must evaluate excess emissions according to paragraph (a) of this section. When all of the fuel from the delivery has been burned, you may resume using the as-delivered sampling option.
- (c) A period of monitor downtime begins when a required sample is not taken by its due date. A period of monitor downtime also begins on the date and hour of a required sample, if invalid results are obtained. The period of monitor downtime ends on the date and hour of the next valid sample.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 37 of the requirements for this permit unit ensures compliance with this rule.

Sections 60.4375, 60.4380, 60.4385 and 60.4395 – Reporting:

These sections establish the reporting requirements for the turbine. These requirements include methods and procedures for submitting reports of monitoring parameters, annual performance tests, excess emissions and periods of monitor downtime. The permittee is proposing to maintain records and submit reports in accordance with the requirements specified in these sections. Therefore, the proposed turbines will be operating in compliance with the requirements of this section.

The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 38 and 43 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4400 – NO_x Performance Testing:

Section 60.4400, paragraph (a) states that an operator must conduct an initial performance test, as required in §60.8. Subsequent NO_x performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test).

Paragraphs (1), (2) and (3) set forth the requirements for the methods that are to be used during source testing.

The permittee will be required to source test the exhaust of the turbine within 120 days of initial startup and at least once every 12 months thereafter. The permittee will be required to source test in accordance with the methods and procedures specified in paragraphs (1), (2), and (3). Therefore, the proposed turbines will be operating in compliance with the requirements of this section. The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 26 and 28 of the requirements for this permit unit ensures compliance with this rule.

Section 60.4405 – Initial CEMS Relative Accuracy Testing:

Section 60.4405 states that if you elect to install and certify a NO_x-diluent CEMS, then the initial performance test required under §60.8 may be performed in the alternative manner described in paragraphs (a), (b), (c) and (d). The permittee has not indicated that they would like to perform the initial performance test of the CEMS using the alternative methods described in this section. Therefore, the requirements of this section are not applicable and no further discussion is required.

Section 60.4410 – Parameter Monitoring Ranges:

Section 60.4410 sets forth requirements for operators that elect to monitor combustion parameters or parameters indicative of proper operation of NO_x emission controls. As discussed above, the permittee is proposing to install a CEMS system to monitor the NO_x emissions from the turbine and is not proposing to monitor combustion parameters or parameters indicative of proper operation. Therefore, the requirements of this section are not applicable and no further discussion is required.

Section 60.4415 – SO_x Performance Testing:

Section 60.4415 states that an operator must conduct an initial performance test, as required in §60.8. Subsequent SO₂ performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test). There are three methodologies that may be used to conduct the performance tests.

- (1) If the applicant chooses to periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample would be collected following ASTM D5287 (incorporated by reference, see §60.17) for natural gas or ASTM D4177 (incorporated by reference, see §60.17) for oil. Alternatively, for oil, the applicant may follow the procedures for manual pipeline sampling in section 14 of ASTM D4057 (incorporated by reference, see §60.17). The fuel analyses of this section may be performed either by the permittee, a service contractor retained by the permittee, the fuel vendor, or any other qualified agency. The samples should be analyzed for the total sulfur content of the fuel using:
 - (i) For liquid fuels, ASTM D129, or alternatively D1266, D1552, D2622, D4294, or D5453 (all of which are incorporated by reference, see §60.17); or

- (ii) For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or Gas Processors Association Standard 2377 (all of which are incorporated by reference, see §60.17).

The permittee shall periodically determine the sulfur content of the fuel combusted in the turbine when valid purchase contracts, tariff sheets or transportation contract are not available. The sulfur content will be determined using the methods specified above. Therefore, the proposed turbine will be operating in compliance with the requirements of this section. The following condition on the draft permit S-6662-2-1 will ensure continued compliance with the requirements of this section:

- Condition 30 of the requirements for this permit unit ensures compliance with this rule.

Conclusion:

Conditions will be incorporated into the draft permit in order to ensure compliance with each applicable section of this subpart. Therefore, compliance with the requirements of Subpart KKKK is expected and no further discussion is required.

29. 40 CFR 63 Subpart YYYY – National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines

This subpart applies to stationary combustion turbines that are located at a major source of HAP emissions, which is defined as a contiguous site under common control that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year.

This facility is not major source of HAP emissions; hence the requirements of this subpart are not applicable

30. 40 CFR Part 64 – Compliance Assurance Monitoring (CAM)

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units at a major source that are required to obtain a part 70 or 71 permit that meet all of the following three criteria:

- 1) The unit must have an emission limit for the pollutant;
- 2) The unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) The unit must have a pre-control potential to emit of greater than the major source thresholds.

The permit for the turbine at this stationary source has an emissions limit for NO_x, SO_x, PM₁₀, VOC and CO, and. The turbine is equipped with an add-on emission control device which provides control for NO_x, CO, and VOC emissions. There are no control devices for SO_x and PM₁₀ emissions. The post-control emissions for the turbine is less than the major source thresholds from District Rule 2201 (shown in the following table). Compliance Assurance Monitoring is not required during an Initial Title V evaluation for units with post-control potential to emit less than the major source threshold; therefore, a CAM analysis is not required for the turbine until the permit renewal.

Pollutant	Major Source Threshold (lb/year)	Potential Emissions (lb/year)
NO _x	20,000	19,999
CO	200,000	39,783
VOC	20,000	4,462

31. 40 CFR Part 82, Subparts B and F – Stratospheric Ozone

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers, and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

S-6662-0-1: Facility-Wide Requirements

- Conditions 27 and 28 of the requirements of the facility-wide permit ensure compliance with this rule.

32. 40 CFR Part 72, Acid Rain Program

The 47.6 MW simple-cycle natural gas fired turbine, permit unit S-6662-1, is subject to the provisions of the Title IV, Acid Rain Program of the Clean Air Act (40 CFR Part 72) since this unit is a "new unit" (commenced commercial operation on or after November 15, 1990) as defined in 40 CFR 72.2. By reference the requirements of 40 CFR Parts 73, 75, and 77 are included in 40 CFR Part 72.

S-6662-0-1: Facility-Wide Requirements

- Conditions 41 and 56 of the requirements of the facility-wide permit ensure compliance with this rule.

X. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

The applicant does not propose to use any model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant is not proposing any new permit shields.

XI. PERMIT CONDITIONS

See Attachment B - Draft Title V Operating Permit

XI. ATTACHMENTS

- A. Detailed Facility List
- B. Draft Title V Operating Permit
- C. Current SJVUAPCD Permit

Attachment A

Detailed Facility List

Detailed Facility Report
For Facility=6662 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

DELAND ENERGY CENTER LLC SECTION 32, TOWNSHIP 24S, RANGE 25E N/O COUNTY LINE RD. E/O CASEY AVE. EXTENSION DELANO, CA 93215	FAC # STATUS: TELEPHONE:	S 6662 A 9164929486	TYPE: TOXIC ID:	TitleV	EXPIRE ON: AREA: INSP. DATE:	11/30/2017 23 / 10/14
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-6662-2-0	47.6 MW GTE	3020-08B G	1	10,215.00	10,215.00	A	47.6 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A GENERAL ELECTRIC MODEL LM6000 PC SPRINT NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH INLET AIR "CHILLER", INLET AIR "FOGGER", OR HYBRID OF BOTH COMBINED, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND AN OXIDATION CATALYST

Number of Facilities Reported: 1

Attachment B

Draft Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-6662-0-1

EXPIRATION DATE: 11/30/2017

FACILITY-WIDE REQUIREMENTS

1. {4362} The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. {4363} The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. {4368} Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: DELANO ENERGY CENTER LLC

Location: SECTION 32, TOWNSHIP 24S, RANGE 25E, N/O COUNTY LINE RD. E/O CASEY AVE. EXTENSION, DELANO, CA 93215

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10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. {4372} Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. {4384} No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. {4385} All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. {4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
 These terms and conditions are part of the Facility-wide Permit to Operate.

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. {4400} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. {4401} Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. The owners and operators of each affected source and each affected unit at the source shall: (i) Operate the unit in compliance with a complete Acid Rain permit application or a superceding Acid Rain permit issued by the permitting authority; and (ii) have an Acid Rain permit. [40 CFR 72] Federally Enforceable Through Title V Permit
42. The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75. [40 CFR 75] Federally Enforceable Through Title V Permit
43. The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR 75] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

44. The owners and operators of each source and each affected unit at the source shall: (i) hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR 73] Federally Enforceable Through Title V Permit
45. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 77] Federally Enforceable Through Title V Permit
46. An affected unit shall be subject to the sulfur dioxide requirements starting on the later of January 1, 2000, or the deadline for monitoring certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR 72, 40 CFR 75] Federally Enforceable Through Title V Permit
47. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR 72] Federally Enforceable Through Title V Permit
48. An allowance shall not be deducted in order to comply with the requirements under 40 CFR part 73, prior to the calendar year for which the allowance was allocated. [40 CFR 73] Federally Enforceable Through Title V Permit
49. An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72] Federally Enforceable Through Title V Permit
50. An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72] Federally Enforceable Through Title V Permit
51. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides. [40 CFR 72] Federally Enforceable Through Title V Permit
52. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77. [40 CFR 77] Federally Enforceable Through Title V Permit
53. The owners and operators of an affected unit that has excess emissions in any calendar year shall: (i) pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) comply with the terms of an approved offset plan, as required by 40 CFR part 77. [40 CFR 77] Federally Enforceable Through Title V Permit
54. The owners and operators of the each affected unit at the source shall keep on site the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superceded because of the submission of a new certificate of representation changing the designated representative. [40 CFR 72] Federally Enforceable Through Title V Permit
55. The owners and operators of each affected unit at the source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program. [40 CFR 72, 40 CFR 75] Federally Enforceable Through Title V Permit
56. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 75 Subpart I. [40 CFR 75] Federally Enforceable Through Title V Permit
57. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

58. On xxxx, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period.
[District Rule 2520] Federally Enforceable Through Title V Permit

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

Facility Name: DELANO ENERGY CENTER LLC

Location: SECTION 32, TOWNSHIP 24S, RANGE 25E, NIW COUNTY, LINE RD. E/O CASEY AVE. EXTENSION, DELANO, CA 93215

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-6662-2-1

EXPIRATION DATE: 11/30/2017

SECTION: 32 TOWNSHIP: 24S RANGE: 25E

EQUIPMENT DESCRIPTION:

47.6 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A GENERAL ELECTRIC MODEL LM6000 PC SPRINT NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH INLET AIR "CHILLER", INLET AIR "FOGGER", OR HYBRID OF BOTH COMBINED, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND AN OXIDATION CATALYST

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
3. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve the gas turbine engine. Exhaust ducting may be equipped (if required) with a fresh air inlet blower to be used to lower the exhaust temperature prior to inlet of the SCR system catalyst. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Combustion turbine generator (CTG) and electrical generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater, except for a period or periods not exceeding three minutes in any one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
6. The turbine shall be equipped with a continuous monitoring system to measure and record hours of operation, mass ratio of water-to-fuel injected and fuel consumption. [District Rules 2201 and 4703, 40 CFR 60.4335(b)(1)]
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, and O₂. The CEMs shall meet the requirements of 40 CFR part 60, Appendices B and F (for CO), and 40 CFR part 75, Appendices A and B (for NO_x and O₂) and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rules 1080, 2201 and 4703, 40 CFR 60.4335(b)(1) and 40 CFR 60.4345(a)] Federally Enforceable Through Title V Permit
8. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080 and 40 CFR 60.4345(b)]
9. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] 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.

Facility Name: DELANO ENERGY CENTER LLC

Location: SECTION 32, TOWNSHIP 24S, RANGE 25E, N/O COUNTY LINE RD. E/O CASEY AVE. EXTENSION, DELANO, CA 93215

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10. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
11. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. The CTG shall be fired exclusively on PUC regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rule 2201 and 40 CFR 60.4330(a)(2)] Federally Enforceable Through Title V Permit
13. Start-up is defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. Shutdown is defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703] Federally Enforceable Through Title V Permit
14. During startup periods, CTG exhaust emissions shall not exceed any of the following limits: NO_x (as NO₂) - 20.0 lb/hr, CO - 15 lb/hr, VOC - 1.21 lb/hr, averaged over the length of the startup period. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
15. During shutdown periods, CTG exhaust emissions shall not exceed any of the following limits: NO_x (as NO₂) - 7.0 lb/hr, CO - 12 lb/hr, VOC - 1.21 lb/hr, averaged over the length of the shutdown period. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
16. Startup and shutdown times shall not exceed 2 hours each in any day. Startup/shutdown emissions shall be counted toward all applicable emission limits (lb/day and lb/year). [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
17. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [40 CFR 60.4333(a)] Federally Enforceable Through Title V Permit
18. Emission rates from this unit, except during startup and shutdown, shall not exceed any of the following limits: NO_x (as NO₂) - 4.3 lb/hr or 2.5 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.35 lb/hr; PM₁₀ - 3.12 lb/hr; CO - 10.58 lb/hr or 10.0 ppmvd @ 15% O₂; or VOC (as methane) - 1.21 lb/hr or 2.0 ppmvd @ 15% O₂. All emission concentration limits are based on three hour rolling averages. [District Rules 2201 and 4703, and 40 CFR 60.4320(a) & (b)] Federally Enforceable Through Title V Permit
19. Ammonia (NH₃) emissions shall not exceed either of the following limits: 6.42 lb/hr or 10 ppmvd @ 15% O₂ (based on a 24 hour rolling average). [District Rule 4102] Federally Enforceable Through Title V Permit
20. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. Each one hour period in a twenty-four hour average will commence on the hour. The twenty-four hour average will be calculated starting and ending at twelve-midnight. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Emissions from this unit, on days when a startup and/or shutdown occurs, shall not exceed the following: NO_x (as NO₂) - 141.0 lb/day; SO_x (as SO₂) - 32.4 lb/day; PM₁₀ - 74.9 lb/day; CO - 265.6 lb/day; or VOC - 29.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Annual baseline fuel use (excludes startup and shutdown periods) shall not exceed 1,498,804 MMBtu/year. Annual emissions from the CTG, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: NO_x (as NO₂) - 19,999 lb/year; SO_x (as SO₂) - 4,891 lb/year; PM₁₀ - 11,325 lb/year; CO - 39,783 lb/year; or VOC - 4,462 lb/year. [District Rule 2201] 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.

23. Daily emissions will be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each month in the twelve consecutive month rolling average emissions shall commence at the beginning of the first day of the month. The twelve consecutive month rolling average emissions to determine compliance with annual emissions limitations shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: $(\text{ppmvd @ 15\% O}_2) = ((a - (b \times c / 1,000,000)) \times (1,000,000 / b)) \times d$, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) Utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.) Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rule 4102]
25. Source testing to measure startup NOx, CO, and VOC mass emission rates shall be conducted at least once every seven years. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Source testing to measure the NOx, CO, VOC, and NH3 emission rates (lb/hr and ppmvd @ 15% O2) and PM10 emission rate (lb/hr) shall be conducted at least once every twelve months. [District Rules 1081 and 4703, 40 CFR 60.4340 and 40 CFR 60.4400] Federally Enforceable Through Title V Permit
27. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
28. The following test methods shall be used: NOx - EPA Method 7E or 20 or ARB Method 100 and EPA Method 19 (Acid Rain Program); CO - EPA Method 10 or 10B or ARB Method 100; VOC - EPA Method 18 or 25; PM10 - EPA Method 5 and 202 (front half and back half) or 201a and 202; ammonia - BAAQMD ST-1B; and O2 - EPA Method 3, 3A, or 20 or ARB 100. NOx testing shall also be conducted in accordance with the requirements of 40 CFR 60.4400(a)(2), (3), and (b). EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081 and 4703 and 40 CFR 60.4400(1)(i) and 40 CFR 60.4400(a)(2), (3), and (b)] Federally Enforceable Through Title V Permit
29. The sulfur content of each natural gas fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) demonstrated within 60 days after the end of the commissioning period and monitored weekly thereafter. If the sulfur content is demonstrated to be less than 1.0 gr/100 scf for eight consecutive weeks, then the monitoring frequency shall be every six months. If the result of any six month monitoring demonstrates that the fuel does not meet the fuel sulfur content limit, weekly monitoring shall resume. [40 CFR 60.4360, 60.4365(a) and 60.4370(c)] Federally Enforceable Through Title V Permit
30. Fuel sulfur content shall be monitored using one of the following methods: ASTM Methods D1072, D3246, D4084, D4468, D4810, D6228, D6667 or Gas Processors Association Standard 2377. [40 CFR 60.4415(a)(1)(i)] Federally Enforceable Through Title V Permit
31. For the CO CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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32. For the NOx and O2 CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 75, Appendix A, at least once every two operating quarters, unless incentive criteria has been met which allows the RATA to be performed once every fourth operating quarter. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendix A. [District Rule 1080] Federally Enforceable Through Title V Permit
33. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080, and 40 CFR 60.4350(a)] Federally Enforceable Through Title V Permit
34. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit
35. Excess NOx emissions shall be defined as any 30 day operating period in which the 30 day rolling average NOx concentration exceeds an applicable emissions limit. A 30 day rolling average NOx emission rate is the arithmetic average of all hourly NOx emission data in ppm measured by the continuous monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day. A new 30 day average is calculated each unit operating day as the average of all hourly NOx emission rates for the preceding 30 unit operating days if a valid NOx emission rate is obtained for at least 75 percent of all operating hours. A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both). [40 CFR 60.4350(h) and 40 CFR 60.4380(b)(1)] Federally Enforceable Through Title V Permit
36. For the purpose of determining excess NOx emissions, for each unit operating hour in which a valid hourly average is obtained, the data acquisition system and handling system must calculate and record the hourly NOx emission rate in units of ppm or lb/MMBtu, using the appropriate equation from Method 19 of 40 CFR 60 Appendix A. For any hour in which the hourly O2 concentration exceeds 19.0 percent O2, a diluent cap value of 19 percent O2 may be used in the emission calculations. [40 CFR 60.4350(b)] Federally Enforceable Through Title V Permit
37. Excess SOx emissions is each unit operating hour included in the period beginning on the date and hour of any sample for which the fuel sulfur content exceeds the applicable limits listed in this permit and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit. Monitoring downtime for SOx begins when a sample is not taken by its due date. A period of monitor downtime for SOx also begins on the date and hour of a required sample, if invalid results are obtained. A period of SOx monitoring downtime ends on the date and hour of the next valid sample. [40 CFR 60.4385(a) and (c)] Federally Enforceable Through Title V Permit
38. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess NOx emissions, nature and the cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR 60.4375(a) and 60.4395] Federally Enforceable Through Title V Permit
39. The owner/operator shall submit to the District information correlating the NOx control system operating parameters to the associated measured NOx output. The information must be sufficient to allow the District to determine compliance with the NOx emission limits of this permit during times that the CEMS is not functioning properly. [District Rule 4703] Federally Enforceable Through Title V Permit
40. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the required monitoring devices to ensure that such devices are functioning properly. [District Rule 1080] 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.

41. Water or chemical/organic stabilizers/suppressants shall be applied when handling bulk materials as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, wind barriers with less than 50% opacity shall also be used. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
42. All bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load, or covering the load with a tarp or other suitable cover. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
43. Permittee shall provide notification and recordkeeping as required under 40 CFR, Part 60, Subpart A, 60.7. [40 CFR 60.4380] Federally Enforceable Through Title V Permit
44. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, and maintenance of any continuous emission monitor. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
45. The permittee shall maintain the following records: baseline MMBtu of fuel consumed (excludes startup and shutdown periods), total annual MMBtu of fuel consumed, continuous emission monitor measurements, calculated ammonia slip, and calculated NOx mass emission rates (lb/hr and lb/twelve month rolling period). [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
46. The owner/operator shall maintain a system operating log, updated on a daily basis, which includes the following information: The actual local start-up time and stop time, length and reason for reduced load periods, total hours of operation, and type and quantity of fuel used. [District Rule 4703] Federally Enforceable Through Title V Permit
47. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

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

Facility Name: DELANO ENERGY CENTER LLC

Location: SECTION 32, TOWNSHIP 24S, RANGE 25E, N/O COUNTY LINE RD. E/O CASEY AVE. EXTENSION, DELANO, CA 93215

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Attachment C

Current SJVUAPCD Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-6662-2-0

EXPIRATION DATE: 11/30/2017

SECTION: 32 **TOWNSHIP:** 24S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

47.6 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A GENERAL ELECTRIC MODEL LM6000 PC SPRINT NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH INLET AIR "CHILLER", INLET AIR "FOGGER", OR HYBRID OF BOTH COMBINED, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM AND AN OXIDATION CATALYST

PERMIT UNIT REQUIREMENTS

1. Permittee shall submit an application to comply with Rule 2520 - Federally Mandated Operating Permits within twelve months of commencing operation. [District Rule 2520]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
5. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve the gas turbine engine. Exhaust ducting may be equipped (if required) with a fresh air inlet blower to be used to lower the exhaust temperature prior to inlet of the SCR system catalyst. The permittee shall submit SCR and oxidation catalyst design details to the District at least 30 days prior to commencement of construction. [District Rule 2201]
6. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201]
7. Combustion turbine generator (CTG) and electrical generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater, except for a period or periods not exceeding three minutes in any one hour. [District Rules 2201 and 4101]
8. The turbine shall be equipped with a continuous monitoring system to measure and record hours of operation, mass ratio of water-to-fuel injected and fuel consumption. [District Rules 2201, 4001 and 4703]
9. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO_x, CO, and O₂. The CEMs shall meet the requirements of 40 CFR part 60, Appendices B and F (for CO), and 40 CFR part 75, Appendices A and B (for NO_x and O₂) and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rules 1080, 2201, 4001 and 4703]
10. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080]
11. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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Facility Name: DELANO ENERGY CENTER-LLC

Location: SECTION 32, TOWNSHIP 24S, RANGE 25E, N/O COUNTY LINE RD. E/O CASEY AVE. EXTENSION, DELANO, CA 93215

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12. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081]
13. The CTG shall be fired exclusively on PUC regulated natural gas with a sulfur content of no greater than 1.0 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rule 2201]
14. During startup periods (as defined in Rule 4703), CTG exhaust emissions shall not exceed any of the following limits: NO_x (as NO₂) - 20.0 lb/hr, CO - 15 lb/hr, VOC - 1.21 lb/hr for the chiller system or 1.12 lb/hr for the fogger system, based on three hour averages. [District Rules 2201 and 4102]
15. During shutdown periods (as defined in Rule 4703), CTG exhaust emissions shall not exceed any of the following limits: NO_x (as NO₂) - 7.0 lb/hr, CO - 12 lb/hr, VOC - 1.21 lb/hr for the chiller system or 1.12 lb/hr for the fogger system, based on three hour averages. [District Rules 2201 and 4102]
16. Startup and shutdown times (as defined in Rule 4703) shall not exceed 2 hours each in any day. Startup/shutdown emissions shall be counted toward all applicable emission limits (lb/day and lb/year). [District Rules 2201 and 4703]
17. Emission rates from this unit, except during startup and shutdown, shall not exceed any of the following limits if the chiller system, or hybrid chiller/fogger system, is installed: NO_x (as NO₂) - 4.3 lb/hr or 2.5 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.35 lb/hr; PM₁₀ - 3.12 lb/hr; CO - 10.58 lb/hr or 10.0 ppmvd @ 15% O₂; or VOC (as methane) - 1.21 lb/hr or 2.0 ppmvd @ 15% O₂. Emissions rates, except during startup and shutdown, shall not exceed any of the following if the fogger system is installed: NO_x (as NO₂) - 4.03 lb/hr or 2.5 ppmvd @ 15% O₂; SO_x (as SO₂) - 1.25 lb/hr; PM₁₀ - 2.89 lb/hr; CO - 9.82 lb/hr or 10.0 ppmvd @ 15% O₂; or VOC (as methane) - 1.12 lb/hr or 2.0 ppmvd @ 15% O₂. All emission concentration limits are based on three hour rolling averages. [District Rules 2201, 4001 and 4703]
18. Ammonia (NH₃) emissions shall not exceed either of the following limits: If chiller system, or hybrid chiller/fogger system, is installed: 6.42 lb/hr or 10 ppmvd @ 15% O₂ (based on a 24 hour rolling average). If fogger system is installed: 5.96 lb/hr or 10 ppmvd @ 15% O₂ (based on a 24 hour rolling average). [District Rule 4102]
19. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. Each one hour period in a twenty-four hour average will commence on the hour. The twenty-four hour average will be calculated starting and ending at twelve-midnight. [District Rule 2201]
20. Emissions from this unit, on days when a startup and/or shutdown occurs, shall not exceed the following: If chiller option, or hybrid chiller/fogger system, is installed, NO_x (as NO₂) - 141.0 lb/day; SO_x (as SO₂) - 32.4 lb/day; PM₁₀ - 74.9 lb/day; CO - 265.6 lb/day; or VOC - 29.0 lb/day. If fogger option is installed, NO_x (as NO₂) - 134.6 lb/day; SO_x (as SO₂) - 30.0 lb/day; PM₁₀ - 69.4 lb/day; CO - 250.4 lb/day; or VOC - 26.9 lb/day [District Rule 2201]
21. Annual baseline fuel use (excludes startup and shutdown periods) shall not exceed 1,498,804 MMBtu/year. Annual emissions from the CTG, calculated on a twelve consecutive month rolling basis, shall not exceed any of the following: If chiller system, or hybrid chiller/fogger system, is installed: NO_x (as NO₂) - 19,999 lb/year; SO_x (as SO₂) - 4,891 lb/year; PM₁₀ - 11,325 lb/year; CO - 39,783 lb/year; or VOC - 4,462 lb/year. If fogger system is installed: NO_x (as NO₂) - 19,999 lb/year; SO_x (as SO₂) - 4,846 lb/year; PM₁₀ - 11,222 lb/year; CO - 39,783 lb/year; or VOC - 4,421 lb/year. [District Rule 2201]
22. Daily emissions will be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each month in the twelve consecutive month rolling average emissions shall commence at the beginning of the first day of the month. The twelve consecutive month rolling average emissions to determine compliance with annual emissions limitations shall be compiled from the twelve most recent calendar months. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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23. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: $(\text{ppmvd @ 15\% O}_2) = ((a - (b \times c / 1,000,000)) \times (1,000,000 / b)) \times d$, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NO_x concentration ppmvd @ 15% O₂ across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) Utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O₂. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.) Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rule 4102]
24. Source testing to measure startup NO_x, CO, and VOC mass emission rates shall be conducted at least once every seven years. [District Rule 1081]
25. Source testing to measure the NO_x, CO, VOC, and NH₃ emission rates (lb/hr and ppmvd @ 15% O₂) and PM₁₀ emission rate (lb/hr) shall be conducted at least once every twelve months. [District Rules 1081 and 4703]
26. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
27. The following test methods shall be used: NO_x - EPA Method 7E or 20, PM₁₀ - EPA Method 5 (front half and back half), CO - EPA Method 10 or 10B, O₂ - EPA Method 3, 3A, or 20, VOC - EPA Method 18 or 25, ammonia - BAAQMD ST-1B, and fuel gas sulfur content - ASTM D3246. NO_x test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001 and 4703]
28. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080]
29. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080]
30. For the CO CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080]
31. For the NO_x and O₂ CEMs, the owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 75, Appendix A, at least once every two operating quarters, unless incentive criteria has been met which allows the RATA to be performed once every fourth operating quarter. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 75, Appendix A. [District Rule 1080]
32. Permittee shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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33. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100]
34. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080]
35. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 or Rule 8011. [District Rules 8011 and 8021]
36. An owner/operator shall submit a Dust Control Plan to the APCO prior to the start of any construction activity on any site that will include 10 acres or more of disturbed surface area for residential developments, or 5 acres or more of disturbed surface area for non-residential development, or will include moving, depositing, or relocating more than 2,500 cubic yards per day of bulk materials on at least three days. [District Rules 8011 and 8021]
37. Water or chemical/organic stabilizers/suppressants shall be applied when handling bulk materials as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, wind barriers with less than 50% opacity shall also be used. [District Rules 2201, 4101, and 8031]
38. Water or chemical/organic stabilizers/suppressants shall be applied when storing bulk materials as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, all bulk material piles shall also be either maintained with a stabilized surface as defined in Section 3.58 of District Rule 8011, or shall be protected with suitable covers or barriers as prescribed in Table 8031-1, Section B, of District Rule 8031. [District Rules 8011 and 8031]
39. All bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load, or covering the load with a tarp or other suitable cover. [District Rules 2201, 4101, 8011 and 8031]
40. Outdoor handling, storage, and transport of any bulk material shall comply with the requirements of SJVAPCD District Rule 8031, unless specifically exempted under section 4.0 of Rule 8031. [District Rule 8031]
41. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 or Rule 8011. [District Rules 8041 and 8011]
42. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 or Rule 8011. [District Rules 8011 and 8051]
43. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 or Rule 8011. [District Rules 8011 and 8061]
44. Whenever any portion of the site becomes inactive, Permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in Section 3.58 of District Rule 8011. [District Rules 8071 and 8011]
45. Operator shall submit a semiannual report to the APCO listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeded 0.8% by weight. [District Rule 4001]
46. Permittee shall provide notification and recordkeeping as required under 40 CFR, Part 60, Subpart A, 60.7. [District Rule 4001]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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47. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, and maintenance of any continuous emission monitor. [District Rules 2201 and 4703]
48. The permittee shall maintain the following records: baseline MMBtu of fuel consumed (excludes startup and shutdown periods), total annual MMBtu of fuel consumed, continuous emission monitor measurements, calculated ammonia slip, and calculated NOx mass emission rates (lb/hr and lb/twelve month rolling period). [District Rules 2201 and 4703]
49. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 2201 and 4703]
50. Records and other supporting documentation shall be maintained as required to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. Records shall be kept for one year following project completion that results in the termination of all dust generating activities. [District Rules 8031, 8071, and 8011]

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Facility Name: DELANO ENERGY CENTER LLC

Location: SECTION 32, TOWNSHIP 24S, RANGE 25E, N/O COUNTY LINE RD. E/O CASEY AVE. EXTENSION, DELANO, CA 93215

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