



May 28, 2020

Mr. Carlos Gaeta  
Southern California Gas Company  
PO Box 2300 SC9314  
Chatsworth CA 91313

**Re: Notice of Preliminary Decision – Title V Permit Renewal**  
**Facility Number: S-1792**  
**Project Number: S-1184355**

Dear Mr. Gaeta:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Southern California Gas Company at 9530 Highway 166, in Mettler, California.

The notice of preliminary decision for this project has been posted on the District's website ([www.valleyair.org](http://www.valleyair.org)). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed 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. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Sincerely,



Arnaud Marjollet  
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email  
cc: Gerardo C. Rios, EPA (w/enclosure) via EPS

**Samir Sheikh**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
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**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation  
Southern California Gas Company  
S-1792**

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**TITLE V PERMIT RENEWAL EVALUATION  
Natural Gas Compressor Station**

**Engineer:** William Jones  
**Date:** 5/14/20

**Facility Number:** S-1792  
**Facility Name:** Southern California Gas Company  
Wheeler Ridge Compressor Station  
**Mailing Address:** PO Box 2300 SC9314  
Chatsworth CA 91313

**Contact Name:** Carlos Gaeta  
**Phone:** 760-243-6574

**Responsible Official:** Carlos Gaeta  
**Title:** Field Operation Manager

**Project # :** S-1184355  
**Deemed Complete:**

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**I. PROPOSAL**

Southern California Gas Company Wheeler Ridge Compressor Station (SCG) was issued a Title V permit on 3/31/15. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit. SCG has requested to incorporate recently issued ATCs S-1792-5-9, and S-1792-5-8 (under project S-1183509) into the Title V operating permit. Copies of ATCs S-1792-5-9 and S-1792-7-8 are included as Attachment D. In addition, SCG has requested multiple revision to clarify the rule citation listed on permits units S-1792-5, S-1792-6, S-1792-7, and S-1792-12.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

**II. FACILITY LOCATION**

SCG is located at 9530 CA State Highway 166, in Mettler CA.

### **III. EQUIPMENT LISTING**

A detailed facility printout listing all permitted equipment at the facility is included as **Attachment C**.

### **IV. GENERAL PERMIT TEMPLATE USAGE**

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

### **V. SCOPE OF EPA AND PUBLIC REVIEW**

The applicant is not requesting any model general permit templates. Therefore, all federally enforceable conditions in this current Title V permit will be subject to EPA and public review.

### **VI. FEDERALLY ENFORCEABLE REQUIREMENTS**

#### **A. Rules Updated**

- District Rule 2201, New and Modified Stationary Source Review Rule (amended May 21, 2011, amended August 15, 2019)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001, amended August 15, 2019)
- District Rule 4601, Architectural Coatings (amended April 16, 2020)
- 40 CFR Part 63 Subpart YYYY - National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines (amended March 5, 2004, March 9, 2020)
- 40 CFR Part 82, Subpart B - Stratospheric Ozone (amended April 25, 2015 amended July 17, 2019, August 23, 2019)
- 40 CFR Part 60 Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Amended 7/7/16, 11/13/19)
- 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (amended 8/30/16)

#### **B. Rules Removed**

There are no applicable rules that were removed during this current review interval (3/31/15 to present).

### **C. Rules Added**

There are no applicable rules that were added during this current review interval (3/31/15 to present).

### **D. Rules Not Updated**

- District Rule 1070, Inspections (amended December 17, 1992)
- 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 (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2020, Exemptions (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 2410, Prevention of Significant Deterioration (became effective on November 26, 2012)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4102, Nuisance (amended December 17, 1992)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4701, Internal Combustion Engines – Phase I (amended August 21, 2003)
- District Rule 4702, Internal Combustion Engines – Phase 2 (amended November 14, 2013)
- District Rule 4703, Stationary Gas Turbines (amended September 20, 2007)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- 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 Area (amended September 16, 2004)
- 40 CFR Part 60, Subpart GG, New Source Performance Standards; Standard of Performance for Stationary Gas Turbines (amended August 29, 2012)

- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)
- 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended August 15, 2014)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM) (amended October 22, 1997)
- 40 CFR Part 82, Subpart F, Stratospheric Ozone (amended April 25, 2015)
- Title 17, California Code of Regulations 93115 Airborne Toxic Control Measure for Stationary Compression Ignition (CI) Engines.

## **VII. 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".

For this facility, the following are not federally enforceable and will not be discussed in further detail:

### **A. Rules Added/Updated**

There are no new rules that are not federally enforceable being added at this time.

### **B. Rules Not Updated**

District Rule 4102, Nuisance (as amended December 17, 1992)

## **VIII. PERMIT REQUIREMENTS**

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit or most recent renewal of the Title V permit.

### **A. District Rule 2201 - New and Modified Stationary Source Review Rule (NSR)**

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.

- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- 4) Addition of any new emissions unit which is subject to District permitting requirements.
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable at this time.

#### **B. District Rule 2520 - Federally Mandated Operating Permits**

District Rule 2520 was amended to enhance public notice procedures for District actions that trigger public notification requirements under the existing provisions of these three Rules by requiring electronic notification (e-notice) in place of newspaper publication. This amendment will not affect the conditions listed on any of the PTOs.

##### Greenhouse Gas Discussion

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.

Rule 2520, Section 6.4.4, "Other Changes Not Requiring Title V Permit Amendment," allowed the permittee to implement changes, including the addition of new emissions units, without triggering the permit modification or amendment requirements until the time of Title V permit renewal, provided the conditions described in Sections 6.4.4.1 through 6.4.4.2 were met.

The following permit requirements were added and/or revised to ensure compliance with this rule:

##### **A. S-1792-5-10 - 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET**

- Conditions 16, from the current permit requirement have been revised to include the correct 40 CFR Part 60.334(j)(1)(iii), (j)(5) citation reference.

##### **B. S1792-6-9 - 7.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET**

- Conditions 10, from the current permit requirement have been revised to include the correct 40 CFR Part 60.334(j)(1)(iii), (j)(5) citation reference.

C. S-1792-7-9 - 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET

- Conditions 16, from the current permit requirement have been revised to include the correct 40 CFR Part 60.334(j)(1)(iii) citation reference.

D. S-1792-12-5 - 52.7 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET

- Conditions 16, from the current permit requirement have been revised to include the correct 40 CFR Part 60.334(j)(1)(iii) citation reference.

**C. District Rule 4601, Architectural Coatings (amended April 16, 2020)**

The purpose of this rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements. This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.

The following amendments to Rule 4601, to be effective on and after April 16, 2020:

- Numerous definitions would be added, deleted, or modified in order to make this rule harmonize with definitions and rule requirements presented in the 2019 CARB SCM. Numerous definitions would be deleted or modified to remove outdated language and references. These definitions were included in the 2009 version of the rule, but are now obsolete.
- A provision to prevent the bundling of multiple containers smaller than one liter (1.057 quart) to be sold as a unit with a volume that exceeds one liter, unless they meet the other provisions of Rule 4601.
- A provision to ensure that the existing small container exemption would no longer apply to the following categories of coatings:
  - Bituminous Roof Coatings;
  - Flat and Nonflat Coatings that are sold in containers having capacities greater than eight fluid ounces;
  - Magnesite Cement Coatings;
  - Multi-Color Coatings;
  - Pre-Treatment Wash Primers;
  - Clear and Opaque Shellacs;
  - Reactive Penetrating Sealers
  - Stone Consolidants;
  - Swimming Pool Coatings;
  - Tub and Tile Refinishing Coatings;
  - Wood Coatings, including Lacquers, Varnishes, and Sanding Sealers; and
  - Wood Preservatives.

- VOC content limits have been amended to implement the recommended VOC limits per the 2019 CARB SCM:
  - Three (3) coating categories would be added to rule language effective on and after January 1, 2022.
  - Nine (9) coating categories would be made more stringent effective on and after January 1, 2022.
  - VOC content limits would be added for colorants.
  - 33 coating categories would remain unchanged.
- Labeling requirements have been updated to add new labeling standards consistent with new coatings categories per the 2019 CARB SCM, as well as removing labeling requirements for outdated coating categories.
- Reporting requirements have been removed for outdated coating categories, and requirements would be added for new coating categories per the 2019 CARB SCM.
- New test methods have been added to rule language to account for the new coatings categories as well as removing test methods for outdated coating categories.

The following conditions will remain on the facility-wide permit to ensure compliance with the requirements of this rule:

**A. S-1792-0: - Facility Wide Permit**

- Condition 23, No person shall manufacture, blend, repack, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table 1 or Table 2, after the specified effective date in Table 1 or Table 2. of District Rule 4601 (4/16/20) for use or sale within the District. [District Rule 4601, 5.1] Y
- Condition 24. All VOC-containing materials subject to Rule 4601 (4/16/20) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Y
- Condition 25, The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (4/16/20). [District Rule 4601, 6.1 and 6.3] Y

**D. 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

Pursuant to 60.4200(a)(2) of CFR Part 60 Subpart IIII, this subpart applies to owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) that commence construction after July 1 1, 2005, where the stationary CI ICE are manufactured after April 1, 2006, and are not fire pump engines, or manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July

1, 2006. §60.4200(a)(3) states that this subpart also applies to owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005.

The following CI ICE PTO was installed after July, 2005:

S-1792-11-2 - 93 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Subpart IIII was amended on 7/7/16. The amendment applies to engine manufacturers only; therefore, no further discussion is required.

#### **E. 40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

Pursuant to §60.4230 owners and operators of stationary spark (SI) ignited IC engines that are modified or reconstructed after June 12, 2006, and any person that modifies or reconstructs any stationary SI ICE after June 12, 2006 is subject to this subpart.

The following SI ICE PTO was installed after July, 2005:

S-1792-14-1 - 760 BHP CUMMINS MODEL GTA38 RICH-BURN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE WITH NON-SELECTIVE CATALYTIC REDUCTION (NSCR) POWERING AN EMERGENCY ELECTRICAL GENERATOR

The following conditions will remain on the permit a mechanism to ensure compliance with the requirements of this subpart:

- Condition 2. Emissions from this IC engine shall not exceed any of the following limits: 2.0 g-NO<sub>x</sub>/bhp-hr, 0.063 g-PM<sub>10</sub>/bhp-hr, 2.0 g-CO/bhp-hr, or 1.0 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR 60.4233] Y
- Condition 3. This engine shall be operated only for testing and maintenance, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 40 CFR 60.4243] Y
- Condition 11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer and emissions control system supplier. Records of conducted maintenance shall be kept. [District Rule 4702, 40 CFR 60.4243 and 40 CFR 60.4245] Y
- Condition 13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of

operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. Permittee shall also maintain documentation from the manufacturer of the engine's certification. [District Rule 4702 and 40 CFR 60.4245] Y

**F. 40 CFR Part 63 Subpart YYYY - National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines (amended March 5, 2004, March 9, 2020)**

This subpart establishes national emission limitations and operating limitation for hazardous air pollutants (HAP) emissions from stationary combustion turbines located at major sources of HAP emissions, and requirements to demonstrate initial and continuous compliance with the emission and operating limitations. The facility is not a major or area source of HAP emissions and is not subject to this subpart.

**G. 40 CFR Part 82, Subpart B - Stratospheric Ozone (amended April 25, 2015 amended August 23, 2019)**

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). 40 CFR 82, Subpart B was amended since the previous renewed TV permit was issued. However, the amendments to this subpart do not have any effect on existing permit requirements. The following condition will remain on the facility-wide permit to assure compliance with the requirements.

S-1792-0-1 – Facility-Wide Permit

- Condition 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] Y

**IX. 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**

1. Model General Permit Template SJV-UM-0-3

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

**B. Requirements not Addressed by Model General Permit Templates**

SCG is not requesting any new permit shields within this Title V renewal project. In addition, SCG is not requesting any changes to the existing permit shields already included in their Title V operating permits. Therefore, all of the existing permit shields will be maintained on the revised permits for this renewal project

**C. Obsolete Permit Shields From Existing Permit Requirements**

There are no obsolete permit shield conditions to be removed from the permits.

**X. CALIFORNIA ENVIRONMENTAL QUALITY ACT**

The purpose of the Title V permit renewal is to update the permit to ensure that any changes to regulations since the issuance of the initial Title V permit or most recent renewal of the Title V permit are incorporated as permit requirements.

Per the California Environmental Quality Act (CEQA) Statute §21080.24, and CEQA Guidelines §15281, the issuance, modification, amendment, or renewal of any permit by an air pollution control district or air quality management district pursuant to Title V is exempt from CEQA, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. There will be no physical or operational change to the source or facility nor will the Title V permit renewal authorize a physical or operational change to the source or facility. Therefore, this project, a Title V permit renewal, is subject to a ministerial action that is exempt from CEQA.

**XI. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

**ATTACHMENTS**

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Summary List of Facility Permits
- D. ATCs S-1792-5-9 and S-1792-7-8

ATTACHMENT A

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Draft Renewed Title V Operating Permit

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# *San Joaquin Valley Air Pollution Control District*

**FACILITY:** S-1792-0-2

**EXPIRATION DATE:** 10/31/2019

## **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, 9.8.1 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

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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF I5, CA

S-1792-0-2 : May 19 2020 4:41PM - JONESW

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
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 Rules 8011 and 8021] 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 Rules 8011 and 8031] 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 Rules 8011 and 8041] 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 Rules 8011 and 8051] 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 Rules 8011 and 8061] 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 Rules 8011 and 8071] 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. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On March 31, 2015, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 31 of every year, 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.

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-5-10

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS,  
ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER

## **PERMIT UNIT REQUIREMENTS**

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
2. {4562} Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
3. {4560} While dormant, normal source testing shall not be required. [District Rule 2080]
4. {4563} Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
5. {4564} Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
6. {4565} Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
7. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
8. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
9. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NOx and O2 concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
11. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
12. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
13. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

S-1792-5-10 : May 19 2020 4:45PM -- JONESW

14. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
15. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
16. 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 60.334(j)(1)(iii),(j)(5)] Federally Enforceable Through Title V Permit
17. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
21. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
23. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
25. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [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.

28. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
29. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
33. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
35. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
40. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
41. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
43. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] 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.

45. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
46. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
48. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
49. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
51. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
53. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-6-9

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER

## **PERMIT UNIT REQUIREMENTS**

1. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
2. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
5. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
7. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] Federally Enforceable Through Title V Permit
8. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
9. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

S-1792-6-9 : May 19 2020 4:45PM -- JONESW

10. 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 60.334(j)(1)(iii),(j)(5)] Federally Enforceable Through Title V Permit
11. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
15. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
17. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
23. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
24. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] 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.

25. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
26. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
27. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
29. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
31. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
32. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
34. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
35. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
37. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
38. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
39. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
40. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
41. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
42. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] 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.

43. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
45. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
46. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
47. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley*

## *Air Pollution Control District*

**PERMIT UNIT:** S-1792-7-9

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER

### **PERMIT UNIT REQUIREMENTS**

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
2. {4562} Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
3. {4560} While dormant, normal source testing shall not be required. [District Rule 2080]
4. {4563} Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
5. {4564} Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
6. {4565} Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
7. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
8. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
9. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
11. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rules 2201] Federally Enforceable Through Title V Permit
12. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
13. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

S-1792-7-9 : May 19 2020 4:45PM -- JONESW

14. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
15. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
16. 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 60.334(j)(1)(iii),(j)(5)] Federally Enforceable Through Title V Permit
17. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
21. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
23. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
25. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [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.

28. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
29. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
33. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
35. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
40. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
41. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
43. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] 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.

45. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
46. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
48. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
49. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
51. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
53. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

***San Joaquin Valley  
Air Pollution Control District***

**PERMIT UNIT:** S-1792-9-5

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

NATURAL GAS ODORANT SKID, INCLUDING: 5500 GAL STORAGE TANK AND TWO ODORANT INJECTION PUMP SKIDS

## PERMIT UNIT REQUIREMENTS

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1. All fugitive components shall be maintained leak free as defined below. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A leak shall be defined as the dripping at a rate of more than 3 drops per minute of a liquid containing VOC's or a reading in excess of 10,000 ppm measured as methane on a portable hydrocarbon detector. [District Rule 2201] Federally Enforceable Through Title V Permit
3. A portable hydrocarbon detector used to determine leaking components shall be calibrated with methane and used in accordance with EPA Method 21. Readings shall be taken at a distance of one (1) centimeter from the potential source of emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
4. {3805} The permittee shall maintain a record of the rolling 12-month summary of actual emissions from permitted operations. This record shall be kept on site and made available to the District upon request. [District Rule 2530, 6.1]

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

Facility Name: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

S-1792-9-5 : May 19 2020 4:45PM -- JONESW

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-11-3

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

93 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

## **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. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. NOx emissions shall not exceed 7.01 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The PM10 emissions rate shall not exceed 0.87 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Volatile organic compound emissions shall not exceed 0.19 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Carbon monoxide emissions shall not exceed 12.80 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

S-1792-11-3 : May 19 2020 4:45PM - JONESW

14. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
17. {3415} The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-12-6

**EXPIRATION DATE:** 10/31/2019

**EQUIPMENT DESCRIPTION:**

52.7 MMBTU/HR (HHV) GAS TURBINE ENGINE/COMPRESSOR SET WITH HIGH TEMPERATURE SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA INJECTION SYSTEM AND LUBE OIL VENT COALESCER

## **PERMIT UNIT REQUIREMENTS**

1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
8. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas; and shall not burn more than 447.125 MMscf/year of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
9. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
11. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rules 2201] Federally Enforceable Through Title V Permit
12. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
13. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

S-1792-12-6 : May 19 2020 4:45PM -- JONESW

14. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
15. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
16. 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 60.334(j)(1)(iii), (j)(5)] Federally Enforceable Through Title V Permit
17. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
21. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
23. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
25. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [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.

28. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
29. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
33. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
35. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Gas turbine stack VOC emissions shall not exceed 4.3 ppmv at 15% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O2. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
40. Source testing to measure the NOx, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
41. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
43. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Source testing to measure the NOx emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] 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.

45. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
46. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
48. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
49. Permittee shall keep accurate records of the daily and annual fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
51. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
53. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-14-2

**EXPIRATION DATE:** 10/31/2019

**SECTION:** 5 **TOWNSHIP:** 11N **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

760 BHP (INTERMITTENT) CUMMINS MODEL GTA38 RICH-BURN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE WITH NON-SELECTIVE CATALYTIC REDUCTION (NSCR) POWERING AN EMERGENCY ELECTRICAL GENERATOR

## **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. Emissions from this IC engine shall not exceed any of the following limits: 2.0 g-NOx/bhp-hr, 0.063 g-PM10/bhp-hr, 2.0 g-CO/bhp-hr, or 1.0 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR 60.4233] Federally Enforceable Through Title V Permit
3. This engine shall be operated only for testing and maintenance, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 40 CFR 60.4243] Federally Enforceable Through Title V Permit
4. This IC engine shall be fired on Public Utility Commission (PUC) regulated natural gas only. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
5. {1898} The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
8. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This IC engine shall be equipped with a three-way catalyst and shall be fired on natural gas fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer and emissions control system supplier. Records of conducted maintenance shall be kept. [District Rule 4702, 40 CFR 60.4243 and 40 CFR 60.4245] 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF 15, CA

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12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. Permittee shall also maintain documentation from the manufacturer of the engine's certification. [District Rule 4702 and 40 CFR 60.4245] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

Facility Name: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF IS, CA

S-1792-14-2 : May 19 2020 4:46PM -- JONESW

ATTACHMENT B

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Previous Title V Operating Permit

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# *San Joaquin Valley*

## *Air Pollution Control District*

**FACILITY:** S-1792-0-1

**EXPIRATION DATE:** 10/31/2019

### **FACILITY-WIDE REQUIREMENTS**

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1. 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. 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. 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. 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. 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, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. 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. 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. 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. 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: SOUTHERN CALIF GAS CO

Location: WHEELER RIDGE STA., 9530 HWY 166, 2 MI WEST OF I5, CA

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10. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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
22. 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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

23. 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. 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. 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. 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. 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. 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. 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 Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. 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 Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. 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 Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. 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 Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. 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 Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. 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 Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. 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

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

36. 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. 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. 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. 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. 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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On March 31, 2015, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 31 of every year, 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.

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-5-9

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER: DESIGNATE AS A COMPLIANT DORMANT EMISSIONS UNIT

## **PERMIT UNIT REQUIREMENTS**

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1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
4. While dormant, normal source testing shall not be required. [District Rule 2080]
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
8. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
9. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
10. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
12. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
13. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
14. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] 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.

15. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
16. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
17. 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 60.334(j)] Federally Enforceable Through Title V Permit
18. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
22. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
24. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
27. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [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.

29. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
33. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
34. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
36. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
39. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
41. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
42. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
45. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] 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.

46. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
48. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
49. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
50. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
53. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
54. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-6-7

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS,  
ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER

## **PERMIT UNIT REQUIREMENTS**

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1. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
2. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
5. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
6. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
7. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] Federally Enforceable Through Title V Permit
8. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
9. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] 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.

10. 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 60.334(j)] Federally Enforceable Through Title V Permit
11. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
15. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
17. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
23. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
24. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] 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.

25. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
26. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
27. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
29. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
31. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
32. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
34. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
35. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
37. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
38. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
39. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
40. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
41. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
42. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] 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.

43. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
45. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
46. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
47. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-7-8

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER: DESIGNATE AS A COMPLIANT DORMANT EMISSIONS UNIT

## **PERMIT UNIT REQUIREMENTS**

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1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
4. While dormant, normal source testing shall not be required. [District Rule 2080]
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
8. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
9. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
10. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
12. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rules 2201] Federally Enforceable Through Title V Permit
13. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
14. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] 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.

15. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
16. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
17. 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 60.334(j)] Federally Enforceable Through Title V Permit
18. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
22. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
24. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
27. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [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.

29. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
33. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
34. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
36. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
39. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
41. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
42. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
45. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] 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.

46. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
48. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
49. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
50. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
53. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
54. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

***San Joaquin Valley***  
***Air Pollution Control District***

**PERMIT UNIT:** S-1792-9-3

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

NATURAL GAS ODORANT SKID, INCLUDING: 5500 GAL STORAGE TANK AND TWO ODORANT INJECTION PUMP SKIDS

**PERMIT UNIT REQUIREMENTS**

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1. All fugitive components shall be maintained leak free as defined below. [District Rule 2201] Federally Enforceable Through Title V Permit
2. A leak shall be defined as the dripping at a rate of more than 3 drops per minute of a liquid containing VOC's or a reading in excess of 10,000 ppm measured as methane on a portable hydrocarbon detector. [District Rule 2201] Federally Enforceable Through Title V Permit
3. A portable hydrocarbon detector used to determine leaking components shall be calibrated with methane and used in accordance with EPA Method 21. Readings shall be taken at the surface of the component interface of the potential source of emissions. [District Rule 2201] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley*

## *Air Pollution Control District*

**PERMIT UNIT:** S-1792-11-2

**EXPIRATION DATE:** 10/31/2019

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

93 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

### **PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. NOx emissions shall not exceed 7.01 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The PM10 emissions rate shall not exceed 0.87 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Volatile organic compound emissions shall not exceed 0.19 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Carbon monoxide emissions shall not exceed 12.80 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems". Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] 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.

14. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley*

## *Air Pollution Control District*

**PERMIT UNIT:** S-1792-12-5

**EXPIRATION DATE:** 10/31/2019

**EQUIPMENT DESCRIPTION:**

52.7 MMBTU/HR (HHV) GAS TURBINE ENGINE/COMPRESSOR SET WITH HIGH TEMPERATURE SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA INJECTION SYSTEM AND LUBE OIL VENT COALESCER

### **PERMIT UNIT REQUIREMENTS**

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1. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080] Federally Enforceable Through Title V Permit
3. While dormant, normal source testing shall not be required. [District Rule 2080] Federally Enforceable Through Title V Permit
4. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080] Federally Enforceable Through Title V Permit
5. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080] Federally Enforceable Through Title V Permit
6. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
7. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit
8. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas; and shall not burn more than 447.125 MMscf/year of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
9. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
11. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rules 2201] Federally Enforceable Through Title V Permit
12. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
13. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] 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.

14. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
15. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
16. 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 60.334(j)] Federally Enforceable Through Title V Permit
17. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
21. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
23. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
25. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NOx CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [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.

28. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
29. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
33. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
35. Gas turbine stack PM10 emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
36. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Gas turbine stack VOC emissions shall not exceed 4.3 ppmv at 15% O2. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O2. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
40. Source testing to measure the NOx, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
41. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
43. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Source testing to measure the NOx emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] 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.

45. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
46. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
48. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
49. Permittee shall keep accurate records of the daily and annual fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
50. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
51. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
53. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley Air Pollution Control District*

**PERMIT UNIT:** S-1792-14-1

**EXPIRATION DATE:** 10/31/2019

**SECTION:** 5   **TOWNSHIP:** 11N   **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

760 BHP (INTERMITTENT) CUMMINS MODEL GTA38 RICH-BURN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE WITH NON-SELECTIVE CATALYTIC REDUCTION (NSCR) POWERING AN EMERGENCY ELECTRICAL GENERATOR

## **PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Emissions from this IC engine shall not exceed any of the following limits: 2.0 g-NOx/bhp-hr, 0.063 g-PM10/bhp-hr, 2.0 g-CO/bhp-hr, or 1.0 g-VOC/bhp-hr. [District Rule 2201 and 40 CFR 60.4233] Federally Enforceable Through Title V Permit
3. This engine shall be operated only for testing and maintenance, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 40 CFR 60.4243] Federally Enforceable Through Title V Permit
4. This IC engine shall be fired on Public Utility Commission (PUC) regulated natural gas only. [District Rules 2201 and 4801] Federally Enforceable Through Title V Permit
5. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
6. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
8. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
10. This IC engine shall be equipped with a three-way catalyst and shall be fired on natural gas fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
11. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer and emissions control system supplier. Records of conducted maintenance shall be kept. [District Rule 4702, 40 CFR 60.4243 and 40 CFR 60.4245] 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.

12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. Permittee shall also maintain documentation from the manufacturer of the engine's certification. [District Rule 4702 and 40 CFR 60.4245] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

ATTACHMENT C

Detailed Summary List of Facility Permits

**Detailed Facility Report**  
For Facility=1792  
Sorted by Facility Name and Permit Number

|                                         |  |            |                   |           |               |             |            |
|-----------------------------------------|--|------------|-------------------|-----------|---------------|-------------|------------|
| <b>SOUTHERN CALIF GAS CO</b>            |  | FAC #      | <b>S 1792</b>     | TYPE:     | <b>TitleV</b> | EXPIRE ON:  | 10/31/2019 |
| <b>WHEELER RIDGE STA., 9530 HWY 166</b> |  | STATUS:    | <b>A</b>          | TOXIC ID: | <b>60272</b>  | AREA:       | 7 /        |
| <b>2 MI WEST OF I5, CA</b>              |  | TELEPHONE: | <b>6612537034</b> |           |               | INSP. DATE: | 06/20      |

| PERMIT NUMBER | FEE DESCRIPTION   | FEE RULE  | QTY | FEE AMOUNT | FEE TOTAL | PERMIT STATUS | EQUIPMENT DESCRIPTION                                                                                                                                                                                                          |
|---------------|-------------------|-----------|-----|------------|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-1792-5-9    | 48 MMBtu/hr       | 3020-02 H | 1   | 1,238.00   | 1,238.00  | A             | MODIFICATION OF 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER: DESIGNATE AS A COMPLIANT DORMANT EMISSIONS UNIT |
| S-1792-6-7    | 48 MMBtu/hr       | 3020-02 H | 1   | 1,238.00   | 1,238.00  | A             | 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER                                                                  |
| S-1792-7-8    | 48 MMBtu/hr       | 3020-02 H | 1   | 1,238.00   | 1,238.00  | A             | MODIFICATION OF 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER: DESIGNATE AS A COMPLIANT DORMANT EMISSIONS UNIT |
| S-1792-9-3    | 5,500 gallons     | 3020-05 B | 1   | 113.00     | 113.00    | A             | NATURAL GAS ODORANT SKID, INCLUDING: 5500 GAL STORAGE TANK AND TWO ODORANT INJECTION PUMP SKIDS                                                                                                                                |
| S-1792-11-2   | 93hp              | 3020-10 A | 1   | 98.00      | 98.00     | A             | 93 BHP DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP                                                                                                                                                              |
| S-1792-12-5   | 53 MMBtu/hr       | 3020-02 H | 1   | 1,238.00   | 1,238.00  | A             | 52.7 MMBTU/HR (HHV) GAS TURBINE ENGINE/COMPRESSOR SET WITH HIGH TEMPERATURE SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA INJECTION SYSTEM AND LUBE OIL VENT COALESCER                                                        |
| S-1792-13-0   | 532 BHP ENGINE    | 3020-10 D | 1   | 577.00     | 577.00    | D             | 532 BHP (INTERMITTENT) ISUZU MODEL 6WG1X TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR                                                                                            |
| S-1792-14-1   | 760 bhp IC engine | 3020-10 D | 1   | 577.00     | 577.00    | A             | 760 BHP (INTERMITTENT) CUMMINS MODEL GTA38 RICH-BURN NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE WITH NON-SELECTIVE CATALYTIC REDUCTION (NSCR) POWERING AN EMERGENCY ELECTRICAL GENERATOR                                    |

Number of Facilities Reported: 1

ATTACHMENT D

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ATCs S-1792-5-9 and S-1792-7-8

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# AUTHORITY TO CONSTRUCT

**PERMIT NO:** S-1792-5-9

**ISSUANCE DATE:** 09/18/2018

**LEGAL OWNER OR OPERATOR:** SOUTHERN CALIF GAS CO  
**MAILING ADDRESS:** PO BOX 2300, M/L SC9314  
CHATSWORTH, CA 91313-2300

**LOCATION:** WHEELER RIDGE STA., 9530 HWY 166  
2 MI WEST OF I5, CA

**SECTION:** SE 5 **TOWNSHIP:** 11N **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER: DESIGNATE AS A COMPLIANT DORMANT EMISSIONS UNIT

## CONDITIONS

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1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
4. While dormant, normal source testing shall not be required. [District Rule 2080]
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
8. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

S-1792-5-9 : May 21 2020 2:35PM -- JONESW : Joint Inspection NOT Required

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

9. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
10. This gas turbine engine shall be equipped with a continuously recording fuel gas flowmeter. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The owner or operator shall install, certify, maintain, operate and quality-assure a Continuous Emission Monitoring System (CEMS) which continuously measures and records the exhaust gas NO<sub>x</sub> and O<sub>2</sub> concentrations. [District Rules 1080, 2201 and 4703; and 40 CFR 60.334(b)] Federally Enforceable Through Title V Permit
12. This gas turbine engine shall be equipped with a continuously recording process analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
13. 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 60.334(b)(2)] Federally Enforceable Through Title V Permit
14. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] Federally Enforceable Through Title V Permit
15. The CEMS shall be linked to a data logger which is compatible with the District's Data acquisition system. 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
16. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
17. 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 NO<sub>x</sub> 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 60.334(j)] Federally Enforceable Through Title V Permit
18. All gas turbine engine exhaust shall flow through catalyst beds. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Exhaust gas ducting from gas turbine through catalyst systems shall be gas tight. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers. [District Rule 2201] Federally Enforceable Through Title V Permit
21. Flue gas temperature at SCR catalyst shall be monitored by operational temperature indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
22. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
24. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

25. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
27. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NO<sub>x</sub> CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Permittee shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
30. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15 minute period, the fuel rate differs from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
31. The reference fuel rate is defined as the fuel rate measured during the preceding 15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
32. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the 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. [District Rule 4703] Federally Enforceable Through Title V Permit
33. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
34. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
36. Gas turbine stack PM<sub>10</sub> emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
39. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

41. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
42. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
45. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
46. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
48. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
49. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
50. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
53. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
54. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit

# AUTHORITY TO CONSTRUCT

**PERMIT NO:** S-1792-7-8

**ISSUANCE DATE:** 09/18/2018

**LEGAL OWNER OR OPERATOR:** SOUTHERN CALIF GAS CO  
**MAILING ADDRESS:** PO BOX 2300, M/L SC9314  
CHATSWORTH, CA 91313-2300

**LOCATION:** WHEELER RIDGE STA., 9530 HWY 166  
2 MI WEST OF I5, CA

**SECTION:** SE 5    **TOWNSHIP:** 11N    **RANGE:** 20W

**EQUIPMENT DESCRIPTION:**

MODIFICATION OF 47.65 MMBTU/HR GAS TURBINE ENGINE/COMPRESSOR SET WITH SCR AND OXIDATION CATALYSTS, ANHYDROUS AMMONIA STORAGE AND INJECTION SYSTEM AND LUBE OIL VENT COALESCER: DESIGNATE AS A COMPLIANT DORMANT EMISSIONS UNIT

## CONDITIONS

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1. The facility shall submit an application to modify the Title V permit in accordance with the timeframes and procedures of District Rule 2520. [District Rule 2520] Federally Enforceable Through Title V Permit
2. While dormant, the fuel line shall be physically disconnected from the unit. [District Rule 2080]
3. Permittee shall submit written notification to the District upon designating the unit as dormant or active. [District Rule 2080]
4. While dormant, normal source testing shall not be required. [District Rule 2080]
5. Upon recommencing operation of this unit, normal source testing shall resume. [District Rule 2080]
6. Any source testing required by this permit shall be performed within 60 days of recommencing operation of this unit, regardless of whether the unit remains active or is again designated as dormant. [District Rule 2080]
7. Records of all dates and times that this unit is designated as dormant or active, and copies of all corresponding notices to the District, shall be maintained, retained for a period of at least five years, and made available for District inspection upon request. [District Rule 1070]
8. This gas turbine engine shall be fired only on PUC-regulated natural gas. [District Rules 2201 and 4801; and 40 CFR 60.333] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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

Samir Sheikh, Executive Director / APCO

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Arnaud Marjollet, Director of Permit Services

S-1792-7-8 : May 21 2020 2:35PM -- JONESW : Joint Inspection NOT Required

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308 • (661) 392-5500 • Fax (661) 392-5585

9. This gas turbine engine shall not burn more than 1.237 MMscf/day of natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
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14. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080 and 40 CFR 60.334(b)(1)] Federally Enforceable Through Title V Permit
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16. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements. [District Rule 1080 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit
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22. If oxidation catalyst system or SCR system is inoperative, gas turbine engine shall be shut down. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Failure of catalyst to perform as required because of catalyst poisoning or fouling, except as the result of unforeseeable breakdown, shall not be recognized as basis for Rule 1100 enforcement exemption. [District Rule 1100] Federally Enforceable Through Title V Permit
24. Gas turbine exhaust ducting shall include provisions for adding additional oxidation and SCR catalyst, if required to achieve emission sampling limits. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

25. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 1081, EPA reference methods 5 and 8, and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Ammonia slip shall not exceed 20 ppmv (three-hour average) and compliance with the ammonia slip limit shall be demonstrated using directly measured parameters. [District Rule 2201] Federally Enforceable Through Title V Permit
27. The three-hour rolling average ammonia slip concentration in ppm shall be calculated by subtracting the certified NO<sub>x</sub> CEMs measurement (A) from the measurement reported by the continuously recording process analyzer (B) where ammonia slip shall then be calculated as: Ammonia Slip = B - A. [District Rule 2201] Federally Enforceable Through Title V Permit
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29. Steady state gas turbine engine operation shall commence after any two consecutive 15 minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3000 scf/15 minute period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
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33. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the 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
34. Visible emissions from the gas turbine lube oil vent coalescer shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
35. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
36. Gas turbine stack PM<sub>10</sub> emissions shall not exceed 0.015 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
37. Nitrogen oxide emissions shall not exceed 12 ppmvd at 15% oxygen (three hour average) when turbine is operating in the transitional state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
38. Nitrogen oxide emissions shall not exceed 8 ppmvd at 15% oxygen (three hour average) when turbine is operating in the steady state, as defined by above. [District Rules 2201 and 4703; and 40 CFR 60.332(a)(2)] Federally Enforceable Through Title V Permit
39. Gas turbine stack VOC emissions shall not exceed 0.007 lb/MM BTU. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Carbon monoxide emissions shall not exceed 8 ppmv @ 15% O<sub>2</sub>. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

41. Source testing to measure the NO<sub>x</sub>, CO, and VOC emission limits shall be conducted at least once every twelve months. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
42. Compliance with the gas turbine lube oil vent coalescer visible emissions limit shall be evaluated using EPA method 22 at least once every twelve months. [District Rule 2201] Federally Enforceable Through Title V Permit
43. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source testing, and a source test plan must be submitted for approval at least 15 days prior to testing. Source testing shall be witnessed or authorized by District personnel, and source test results must be submitted to the District within 60 days of the test. [District Rule 1081] Federally Enforceable Through Title V Permit
44. Compliance source testing shall be conducted under conditions representative of normal operation. [District Rule 1081] Federally Enforceable Through Title V Permit
45. Source testing to measure the NO<sub>x</sub> emission rate (ppmv) shall be conducted using EPA Method 7E, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
46. Source testing to measure the VOC emission rate shall be conducted using EPA Method 18. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
47. Source testing to measure the CO emission rate (ppmv) shall be conducted using EPA Method 10, or ARB Method 100. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
48. Source testing to measure stack gas oxygen shall be conducted using EPA Method 3 or 3A, or ARB Method 100. [District Rules 2201 and 4703; and 40 CFR 60.335] Federally Enforceable Through Title V Permit
49. Permittee shall maintain sufficient records to demonstrate that the fuel fired in the turbine is PUC-regulated. [District Rule 2201 and 40 CFR 60.334(h)(3)] Federally Enforceable Through Title V Permit
50. Permittee shall keep accurate records of daily fuel consumption of gas turbine engine and shall make such records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
51. Permittee shall 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. [District Rule 4703] Federally Enforceable Through Title V Permit
52. Permittee shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local start-up and stop time, total hours of operation, quantity of fuel used, and duration of all start-up and shutdown periods. [District Rule 4703] Federally Enforceable Through Title V Permit
53. Permittee shall make continuous emissions monitors records available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
54. All records shall be maintained for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit