



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT



JUN 12 2013

Mr. Kelly Lucas
Midset Cogeneration Company
PO Box 80178
Bakersfield, CA 93380

Re: Proposed ATC / Certificate of Conformity (Significant Mod)
District Facility # S-2592
Project # 1131720

Dear Mr. Lucas:

Enclosed for your review is the District's analysis of an application for Authority to Construct for the facility identified above. You requested that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. Midset Cogeneration Company (MCC) has requested that gas turbine S-2592-1's MMscf/day fuel use limit be removed.

After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the Authority to Construct with a Certificate of Conformity. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice. Prior to operating with modifications authorized by the Authority to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Leonard Scandura, Permit Services Manager, at (661) 392-5500.

Thank you for your cooperation in this matter.

Sincerely,

David Warner
Director of Permit Services

DW:DT/st

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

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

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

Newspaper notice for publication in Bakersfield Californian and for posting on valleyair.org

**NOTICE OF PRELIMINARY DECISION
FOR THE ISSUANCE OF AUTHORITY TO CONSTRUCT AND
THE PROPOSED SIGNIFICANT MODIFICATION OF FEDERALLY
MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed significant modification of Midset Cogeneration Company at 13705 Shale Road, Fellows, California. Midset Cogeneration Company (MCC) has requested that gas turbine S-2592-1's MMscf/day fuel use limit be removed.

The District's analysis of the legal and factual basis for this proposed action, project #1131720, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and at any District office. There are no emission increases associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the modification. If requested, the District will hold a public hearing regarding issuance of this modification. For additional information, please contact the District at (661) 392-5500. Written comments on the proposed initial permit must be submitted by July 17, 2013 to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 34946 FLYOVER COURT, BAKERSFIELD, CA 93308.**

San Joaquin Valley Air Pollution Control District
Authority to Construct Application Review
Gas Turbine

Facility Name: Midset Cogeneration Company
Mailing Address: PO Box 80178
Bakersfield, CA 93380
Contact Person: Kelly Lucas
Telephone: 661-615-4630
Application #(s): S-2592-1-11
Project #: 1131720
Deemed Complete: 5/8/13

Date: 5/23/2013
Engineer: David Torii
Lead Engineer: Allan Phillips *AP surr AOE*
JUN 10 2013

I. Proposal

Midset Cogeneration Company (MCC) has requested an Authority to Construct (ATC) permit to remove gas turbine S-2592-1's MMscf/day fuel use limit.

The daily gas use limit is equivalent to the hourly heat input limit times 24. As such, the daily gas use limit is redundant and will be removed from the permit.

MCC received their Title V Permit on 5/1/1998. This modification can be classified as a Title V significant modification pursuant to Rule 2520, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authority to Construct. MCC must apply to administratively amend their Title V permit.

II. Applicable Rules

Rule 2201	New and Modified Stationary Source Review Rule (4/21/11)
Rule 2410	Prevention Of Significant Deterioration (6/16/11) (not an NSR modification; therefore this rule does not apply for this project)
Rule 2520	Federally Mandated Operating Permits (6/21/01)
Rule 4001	New Source Performance Standards (4/14/99) 40 CFR Part 60 Subpart GG - Standards of Performance for Stationary Gas Turbines 40 CFR Part 60 Subpart KKKK - Standards of Performance for Stationary Combustion Turbines – not applicable – turbine installed prior to February 18, 2005
Rule 4101	Visible Emissions (2/17/05)
Rule 4102	Nuisance (12/17/92)
Rule 4201	Particulate Matter Concentration (12/17/92)
Rule 4301	Fuel Burning Equipment (12/17/92)
Rule 4703	Stationary Gas Turbines (9/20/2007)
Rule 4801	Sulfur Compounds (12/17/92)
CH&SC 41700	Health Risk Assessment

CH&SC 42301.6 School Notice
Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA
Guidelines

III. Project Location

The facility is located at 13705 Shale Road, Fellows, CA. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

Cogeneration plants are used to produce high quality steam for injection into the oil producing strata to enhance oil production and to produce electricity for use in the oil field with any excess power being sold.

V. Equipment Listing

Pre-Project Equipment Description (see PTO in Appendix A):

PTO S-2592-1-10: 39.86 MW GENERAL ELECTRIC, FRAME 6, MODEL PG6531(B) GAS-FIRED GAS TURBINE ENGINE COGENERATION SYSTEM

Proposed Modification:

ATC S-2592-1-11: MODIFICATION OF 39.86 MW GENERAL ELECTRIC, FRAME 6, MODEL PG6531(B) GAS-FIRED GAS TURBINE ENGINE COGENERATION SYSTEM: REMOVE MMSCF/DAY FUEL USE LIMIT

Post Project Equipment Description:

S-2592-1-11: 39.86 MW GENERAL ELECTRIC, FRAME 6, MODEL PG6531(B) GAS-FIRED GAS TURBINE ENGINE COGENERATION SYSTEM

VI. Emission Control Technology Evaluation

The GTE is currently equipped with NOx control equipment, including steam/water injection and selective catalytic reduction (SCR) with ammonia injection. No changes to the SCR NOx control technology are proposed.

VII. General Calculations

As shown below in section VIII, this project is not an NSR modification; therefore, calculations are not required.

VIII. Compliance

Rule 2201 New and Modified Stationary Source Review Rule

This rule shall apply to all new stationary sources and all modifications to existing stationary sources which are subject to the District permit requirements and after construction emit or may emit one or more affected pollutant.

Pursuant to section 3.25.1 a modification is an action including at least one of the following items:

- 3.25.1.1 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.
- 3.25.1.2 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.
- 3.25.1.3 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.
- 3.25.1.4 Addition of any new emissions unit which is subject to District permitting requirements.

This project's revisions do not constitute a Rule 2201 modification and the stationary source is not new, therefore, this rule does not apply and no further discussion is required.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. A significant permit modification is defined as a "permit amendment that does not qualify as a minor permit modification or administrative amendment."

Minor permit modifications do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions. Monitoring to ensure that the scf/day fuel use limit is not exceeded will no longer be required. This constitutes a relaxation of monitoring requirements. As a result, the proposed project constitutes a Significant Modification to the Title V Permit.

Rule 4001 NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines

The current permit (and proposed ATC) includes NOx and SOx emissions limits that meet the standards of Subpart GG. Continued compliance is expected.

Rule 4101 Visible Emissions

Visible emissions in excess of 20% opacity or Ringelmann 1 are not expected from properly operated combustion equipment fired exclusively on low-sulfur natural gas. The natural gas-fired GTE in this project is expected to comply with the opacity limit of this rule.

Rule 4102 Nuisance

Rule 4102 prohibits discharge of air contaminants which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result

of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected.

California Health & Safety Code 41700 (Health Risk Assessment)

District Policy APR 1905 – *Risk Management Policy for Permitting New and Modified Sources* specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

As demonstrated above, there are no increases in emissions associated with this project, therefore a health risk assessment is not necessary and no further risk analysis is required.

Discussion of T-BACT

BACT for toxic emission control (T-BACT) is required if the cancer risk exceeds one in one million. As demonstrated above, T-BACT is not required for this project because the HRA indicates that the risk is not above the District's thresholds for triggering T-BACT requirements; therefore, compliance with the District's Risk Management Policy is expected.

Rule 4201 Particulate Matter Concentration

This rule limits particulate matter emissions to 0.1 grains per dry standard cubic foot. As natural gas-fired gas turbines emit negligible amounts of particulate matter, compliance with this rule is expected.

Rule 4703 Stationary Gas Turbines

Section 5.1 - NO_x Emissions

The current permit lists 5 ppmvd @ 15% O₂ and therefore is in compliance with Table 5-2 (Section 5.1.2) for greater than 10 MW, combined cycle standard option.

Section 5.2 – CO Emissions

The unit is currently and is expected to remain in compliance with the Table 5-3 CO emissions limit of 200 ppmvd @ 15% O₂.

Section 5.3 - Startup, Shutdown, Reduced Load Period

Unless specifically requested by applicant and District-approved as described in Section 5.3.3, the duration of each startup and shutdown shall not exceed 2 hours, and the duration of each reduced load period shall not exceed 1 hour.

The following condition is included on the ATC:

- Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR Subpart 60.2] Y

The emissions control system shall be in operation and emissions shall be minimized insofar as technologically feasible during startup, shutdown or reduced load period.

The following conditions are included on the ATC:

Midset Cogeneration Company, 1131720, S-2592

- Except during periods of gas turbine engine startup/shutdown, inlet gas temperature to catalyst bed shall be maintained within the range recommended by catalyst manufacturer of 392 degrees and 752 degrees F. [District NSR Rule and 40 CFR Part 64] Y
- Except during periods of gas turbine engine startup/shutdown, gas turbine engine shall not be operated unless water injection and SCR system are operating. [District NSR Rule] Y
- If water injection or SCR system are inoperative, gas turbine engine operation shall be curtailed such that compliance with emission limits is achieved. [District NSR Rule] Y
- Except during periods of gas turbine engine startup/shutdown, gas temperature at ammonia injection grid shall be maintained below 2000 F. [District NSR Rule and 40 CFR Part 64] Y
- On days of gas turbine engine startup/shutdown, permittee shall demonstrate compliance with NOx and CO daily emission limitations by records of calculations using CEM data, fuel rate data, and daily hours of operation data. [District NSR Rule and 40 CFR Part 64] Y

Section 6.1 - Emissions Control Plan

The facility has complied with the Emissions Control Plan Section 6.1 requirements.

Section 6.2 - Monitoring and Recordkeeping

The unit is equipped with CEMs and therefore satisfies Section 6.2.1 of the rule. The following conditions relate to operation of the CEMs:

- The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: emissions control system operating parameters, elapsed time of operation of the turbine, the fuel consumption, and the exhaust gas NOx and O2 concentrations. [District NSR Rule, District Rules 2520, 9.3.2, 4703, 6.2.1, 6.2.3 and 40 CFR 60.334(a) and 40 CFR Part 64] Y
- {2249} CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4, 3.4.1 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Y
- The continuous NOx and O2 monitoring system shall meet all the applicable requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Y
- {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Y
- The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080, Section 4.0 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(b) and District Rule 1080, 7.3] Y
- Operators of CEM systems installed at the direction of the APCO shall submit a written report 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 emissions, nature and 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, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District NSR Rule and District Rule 1080, 8.0] Y
- APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by District Rule 1080, Section 11.0 (amended 12/17/92) to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Y

Section 6.3 - Compliance Testing

The applicant is required to perform a source test of exhaust gas NOx and CO concentrations annually to show compliance with the permitted emission concentrations. The following conditions are included on the ATC:

Midset Cogeneration Company, 1131720, S-2592

- The Relative Accuracy Audit and annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, and witnessed by the District. [District NSR Rule] Y
- Compliance source testing for NO_x, CO, SO_x, VOCs & ammonia shall be conducted annually (or as approved by the District) within 60 days prior to permit anniversary and official test results & field data submitted within 60 days thereafter. [District NSR Rule] Y
- No annual source testing shall be required for SO_x emissions if the turbine is fired on PUC-regulated natural gas. [District NSR Rule and 40 CFR Part 60.334(h)(3)] Y
- Samples shall be collected during maximum fuel consumption, use of water and NH₃ injection at desired rates, and use of evaporative coolers (if necessary, to test at maximum fuel consumption). [District NSR Rule] Y
- Each one hour period in a three-hour average shall commence upon the hour. The three hour average will be compiled from the three most recent one hour periods. [District NSR Rule] Y
- Source testing shall be performed for VOCs according to EPA Method 25 or 18, for CO according to EPA Method 10 or 10B, and for SO_x according to EPA Method 6 or 8. [District Rule 2520, 9.3.2, District Rule 4703, 6.4] Y
- The owner or operator shall be required to conform to the compliance testing and sampling procedures described in District Rule 1081, Sections 3.0 through 7.0 (as amended 12/16/93). [District Rule 1081, 3.0 through 7.0] Y

Section 7.2 - Tier 2 Compliance Schedule

Compliance with the standard option of Table 5-2 has been demonstrated.

Section 8.0 Alternative Emission Control Plan (AECp)

This section is not applicable.

Continued compliance is expected.

Rule 4801 Sulfur Compounds

Rule 4801 limits sulfur compound emissions to 0.2% (2,000 ppm) dry volume. No change in sulfur emissions is proposed or quantified with this project. The existing GTE is fired on natural gas containing sulfur compounds well under 2000 ppmvd as SO₂; therefore, continued compliance is expected.

California Health & Safety Code 42301.6 (School Notice)

The District has verified that this site is located within 1,000 feet of a school. However, pursuant to California Health and Safety Code 42301.6, since this project will not result in an increase in emissions, a school notice is not required.

California Environmental Quality Act (CEQA)

CEQA requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The District adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities;
- Identify the ways that environmental damage can be avoided or significantly reduced;

- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible; and
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

The District performed an Engineering Evaluation (this document) for the proposed project and determined that all project specific emission unit(s) are exempt from Best Available Control Technology (BACT) requirements. Furthermore, the District has determined that potential emission increases would have a less than significant health impact on sensitive receptors.

Issuance of permits for emissions units not subject to BACT requirements and with health impact less than significant is a matter of ensuring conformity with applicable District rules and regulations and does not require discretionary judgment or deliberation. Thus, the District concludes that this permitting action constitutes a ministerial approval. Section 21080 of the Public Resources Code exempts from the application of CEQA those projects over which a public agency exercises only ministerial approval. Therefore, the District finds that this project is exempt from the provisions of CEQA.

IX. Recommendation

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue ATC S-2592-1-11 subject to the permit conditions on the attached draft ATC in **Appendix C**.

X. Billing Information

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description	Annual Fee
S-2592-1-11	3020-08AG	39 MW	\$10215

Appendix A
PTO S-2592-1-10

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-2592-1-10

EXPIRATION DATE: 02/29/2016

SECTION: 36 TOWNSHIP: 31S RANGE: 22E

EQUIPMENT DESCRIPTION:

39.86 MW GENERAL ELECTRIC, FRAME 6, MODEL PG6531(B) GAS-FIRED GAS TURBINE ENGINE COGENERATION SYSTEM

PERMIT UNIT REQUIREMENTS

1. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [District Rule 4703, 6.2.6; 40 CFR 60.332(a),(b) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
2. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
3. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
4. Cogeneration unit shall include General Electric, Frame 6, mode PG6531(B), natural gas fired turbine engine, Pneumafil PVC media type inlet air evaporative cooler and turbine combustor water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Cogeneration unit shall include 215,000 pounds per hour unfired heat recovery steam generator, Mitsubishi selective catalytic reduction NOx control system with ammonia injection and continuously recorded emission monitors for NOx, CO and CO2. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
6. Gas turbine engine shall not burn more than 11.76 MMScf/day of natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
7. All gas turbine engine exhaust shall flow through catalyst bed. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Compliance with ammonia slip limit shall be demonstrated by continuously recording the following parameters: inlet air mass flow rate (lbm/sec), fuel gas mass flow rate (lbm/sec), injected water mass flow rate (lbm/sec), ammonia injection volumetric flow rate (scf/hr), fuel f factor (scf dry gas/scf wet gas), NOx concentration into SCR catalyst (ppm), and NOx concentration out of SCR catalyst (ppm); and calculating the ammonia slip using the following equation: ammonia slip ppm (uncorrected) = ammonia injection volumetric flow rate/[fuel f factor x (3600/10⁶) x 379.5 x (inlet air mass flow rate + fuel gas mass flow rate + injected water mass flow rate)/exhaust gas molecular weight] - (NOx concentration into the SCR catalyst - NOx concentration out of the SCR catalyst). Uncorrected ammonia slip calculated using the above equation shall be corrected to 15% O2. [District Rule 4102]
9. Turbine maximum heat input rate shall not exceed 500 MMBtu/hr (LHV) when fired on natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Maximum daily emission limitations (DEL) shall not exceed the following: PM-10: 60.0 lb./day, SOx (as SO2): 14.4 lb./day, NOx (as NO2): 259.7 lb./day, VOC: 24.0 lb./day and CO: 259.2 lb./day. [District NSR Rule and District Rule 4201, 3.1] 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.

11. Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR Subpart 60.2] Federally Enforceable Through Title V Permit
12. Except during periods of startup/shutdown, gas turbine engine emission rates (three-hour average) shall not exceed: PM10: 2.50 lb/hr, SO_x as SO₂: 0.6 lb/hr, NO_x as NO₂: 9 lb/hr, VOC: 1.00 lb/hr and CO: 10.8 lb/hr. [District NSR Rule and District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
13. Permittee shall report the following emission exceedences to the District: emission rates of NO_x & CO on a three hour average, NSPS emission rate on one hour average, and DEL of NO_x & CO during days of gas turbine engine startup/shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Except during periods of gas turbine engine startup/shutdown, inlet gas temperature to catalyst bed shall be maintained within the range recommended by catalyst manufacturer of 392 degrees and 752 degrees F. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
15. Except during periods of gas turbine engine startup/shutdown, gas turbine engine shall not be operated unless water injection and SCR system are operating. [District NSR Rule] Federally Enforceable Through Title V Permit
16. If water injection or SCR system are inoperative, gas turbine engine operation shall be curtailed such that compliance with emission limits is achieved. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Except during periods of gas turbine engine startup/shutdown, gas temperature at ammonia injection grid shall be maintained below 2000 F. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
18. On days of gas turbine engine startup/shutdown, permittee shall demonstrate compliance with NO_x and CO daily emission limitations by records of calculations using CEM data, fuel rate data, and daily hours of operation data. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
19. Permittee shall maintain accurate records of daily fuel consumption of gas turbine engine and continuous emission monitoring printouts. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
20. Ammonia concentration in exhaust stream shall not exceed 20 ppmv @15% O₂ (three hour average). [District Rule 4102]
21. The Relative Accuracy Audit and annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, and witnessed by the District. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Non-compliance with emission limits shall result in either shutdown or curtailment (reduced fuel consumption) for the permit unit, and an Authority to Construct to modify emission limits shall be required. A variance from this requirement cannot be obtained. [District Rule 1100, 6.3] Federally Enforceable Through Title V Permit
23. Failure of catalysts to perform as required because of catalyst poisoning or fouling shall not be recognized as basis for Rule 1100, Section 4.0 (amended 12/17/92) enforcement exemptions. [District Rule 1100, 4.0] Federally Enforceable Through Title V Permit
24. Compliance source testing for NO_x, CO, SO_x, VOCs & ammonia shall be conducted annually (or as approved by the District) within 60 days prior to permit anniversary and official test results & field data submitted within 60 days thereafter. [District NSR Rule] Federally Enforceable Through Title V Permit
25. No annual source testing shall be required for SO_x emissions if the turbine is fired on PUC-regulated natural gas. [District NSR Rule and 40 CFR Part 60.334(h)(3)] Federally Enforceable Through Title V Permit
26. Samples shall be collected during maximum fuel consumption, use of water and NH₃ injection at desired rates, and use of evaporative coolers (if necessary, to test at maximum fuel consumption). [District NSR Rule] Federally Enforceable Through Title V Permit
27. Each one hour period in a three-hour average shall commence upon the hour. The three hour average will be compiled from the three most recent one hour periods. [District NSR Rule] 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: MID-SET COGENERATION COMPANY

Location: 13705 SHALE RD, FELLOWS, CA

S-2592-1-10: May 23 2013 9:08AM - TORID

28. This facility is part of Chevron's the heavy oil western stationary source, which includes facilities S-1128, S-1129, S-1141, S-1549, and S-2592. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Permittee shall report exceedances of daily emissions limits to the District. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Source testing shall be performed for VOCs according to EPA Method 25 or 18, for CO according to EPA Method 10 or 10B, and for SOx according to EPA Method 6 or 8. [District Rule 2520, 9.3.2, District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
31. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: emissions control system operating parameters, elapsed time of operation of the turbine, the fuel consumption, and the exhaust gas NOx and O2 concentrations. [District NSR Rule, District Rules 2520, 9.3.2, 4703, 6.2.1, 6.2.3 and 40 CFR 60.334(a) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
32. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4, 3.4.1 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit
33. The continuous NOx and O2 monitoring system shall meet all the applicable requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit
34. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
35. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080, Section 4.0 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(b) and District Rule 1080, 7.3] Federally Enforceable Through Title V Permit
36. Operators of CEM systems installed at the direction of the APCO shall submit a written report 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 emissions, nature and 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, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District NSR Rule and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
37. APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by District Rule 1080, Section 11.0 (amended 12/17/92) to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit
38. The owner or operator shall be required to conform to the compliance testing and sampling procedures described in District Rule 1081, Sections 3.0 through 7.0 (as amended 12/16/93). [District Rule 1081, 3.0 through 7.0] Federally Enforceable Through Title V Permit
39. This unit shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [District NSR Rule, District Rule 4801; 40 CFR 60.333(a) and (b); and Kern County Rule 407] 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.

40. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District NSR Rule, District Rule 4801; 40 CFR 60.334(h)(1); and Kern County Rule 407] Federally Enforceable Through Title V Permit
41. If this unit is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using the Gas Processors Association Method 2377 or ASTM method D 1072, D 4084 or D 3246. [40 CFR 60.335(b)(10)] Federally Enforceable Through Title V Permit
42. If this unit is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2 and Kern County Rule 407] Federally Enforceable Through Title V Permit
43. The owner or operator shall annually source test the exhaust emissions for NO_x and CO concentration corrected to 15% O₂ (dry). EPA Methods 7E or 20 shall be used for NO_x emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods. [District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
44. All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit
45. The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit
46. Results of the CEM system shall be averaged over a one hour period, using consecutive 15-minute sampling periods in accordance with 40 CFR 60.13(e)(2) and (h). [40 CFR 60.13(e)(2) and (h); 40 CFR 60.334(a), (b)(2), (c) and District Rule 4703, 6.2.2 and 6.2.3 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
47. The owner or operator shall not operate the gas turbine under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NO_x emissions concentration exceeding the following: 5 ppmv @ 15% O₂ averaged over a three hour period, for the standard option. [District Rule 4703, 5.1.2] Federally Enforceable Through Title V Permit
48. The owner or operator shall not operate the gas turbine under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured CO emissions concentration exceeding 200 ppmv @ 15% O₂ averaged over a three hour period. [District Rule 4703, 5.2] Federally Enforceable Through Title V Permit
49. The HHV and LHV of the fuel combusted shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.332(a) and (b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
50. Compliance with permit conditions in the Title V permit shall be deemed compliance with Kern County Rule 407 as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
51. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1) and (b), 60.333 (a) and (b); 60.334(a), (c)(2), (c)(3), and 60.335(b), (c)(3), and (d); District Rule 4201 (as amended 12/25/92), Section 3 and 4703 (as amended 4/25/02), Sections 5.1.2, 5.2, 6.1, 6.2.1, 6.3.1, 6.3.3, 6.4.1, 6.4.2, 6.4.3, and 6.4.5 as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
52. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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

Appendix B
Draft ATC

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: S-2592-1-11

LEGAL OWNER OR OPERATOR: MID-SET COGENERATION COMPANY
MAILING ADDRESS: PO BOX 80178
BAKERSFIELD, CA 93380

LOCATION: 13705 SHALE RD
FELLOWS, CA

SECTION: 36 TOWNSHIP: 31S RANGE: 22E

EQUIPMENT DESCRIPTION:

MODIFICATION OF 39.86 MW GENERAL ELECTRIC, FRAME 6, MODEL PG6531(B) GAS-FIRED GAS TURBINE ENGINE COGENERATION SYSTEM: REMOVE MMSCF/DAY FUEL USE LIMIT

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [District Rule 4703, 6.2.6; 40 CFR 60.332(a),(b) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
4. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
5. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. Operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [District Rule 1080, 10.0 and 40 CFR Part 64] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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

Seyed Sadredin, Executive Director, APCO

DAVID WARNER, Director of Permit Services

S-2592-1-11; May 28 2013 7:13AM - TORID : Joint Inspection NOT Required

6. Cogeneration unit shall include General Electric, Frame 6, mode PG6531(B), natural gas fired turbine engine, Pneumafil PVC media type inlet air evaporative cooler and turbine combustor water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Cogeneration unit shall include 215,000 pounds per hour unfired heat recovery steam generator, Mitsubishi selective catalytic reduction NOx control system with ammonia injection and continuously recorded emission monitors for NOx, CO and CO2. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
8. All gas turbine engine exhaust shall flow through catalyst bed. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Compliance with ammonia slip limit shall be demonstrated by continuously recording the following parameters: inlet air mass flow rate (lbm/sec), fuel gas mass flow rate (lbm/sec), injected water mass flow rate (lbm/sec), ammonia injection volumetric flow rate (scf/hr), fuel f factor (scf dry gas/scf wet gas), NOx concentration into SCR catalyst (ppm), and NOx concentration out of SCR catalyst (ppm); and calculating the ammonia slip using the following equation: ammonia slip ppm (uncorrected) = ammonia injection volumetric flow rate/[fuel f factor x (3600/10⁶) x 379.5 x (inlet air mass flow rate + fuel gas mass flow rate + injected water mass flow rate)/exhaust gas molecular weight] - (NOx concentration into the SCR catalyst - NOx concentration out of the SCR catalyst). Uncorrected ammonia slip calculated using the above equation shall be corrected to 15% O2. [District Rule 4102]
10. Turbine maximum heat input rate shall not exceed 500 MMBtu/hr (LHV) when fired on natural gas. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Maximum daily emission limitations (DEL) shall not exceed the following: PM-10: 60.0 lb./day, SOx (as SO2): 14.4 lb./day, NOx (as NO2): 259.7 lb./day, VOC: 24.0 lb./day and CO: 259.2 lb./day. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR Subpart 60.2] Federally Enforceable Through Title V Permit
13. Except during periods of startup/shutdown, gas turbine engine emission rates (three-hour average) shall not exceed: PM10: 2.50 lb/hr, SOx as SO2: 0.6 lb/ hr, NOx as NO2: 9 lb/hr, VOC: 1.00 lb/hr and CO: 10. 8 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Permittee shall report the following emission exceedences to the District: emission rates of NOx & CO on a three hour average, NSPS emission rate on one hour average, and DEL of NOx & CO during days of gas turbine engine startup/shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Except during periods of gas turbine engine startup/shutdown, inlet gas temperature to catalyst bed shall be maintained within the range recommended by catalyst manufacturer of 392 degrees and 752 degrees F. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
16. Except during periods of gas turbine engine startup/shutdown, gas turbine engine shall not be operated unless water injection and SCR system are operating. [District NSR Rule] Federally Enforceable Through Title V Permit
17. If water injection or SCR system are inoperative, gas turbine engine operation shall be curtailed such that compliance with emission limits is achieved. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Except during periods of gas turbine engine startup/shutdown, gas temperature at ammonia injection grid shall be maintained below 2000 F. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
19. On days of gas turbine engine startup/shutdown, permittee shall demonstrate compliance with NOx and CO daily emission limitations by records of calculations using CEM data, fuel rate data, and daily hours of operation data. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
20. Permittee shall maintain accurate records of daily fuel consumption of gas turbine engine and continuous emission monitoring printouts. [District NSR Rule and 40 CFR Part 64] Federally Enforceable Through Title V Permit
21. Ammonia concentration in exhaust stream shall not exceed 20 ppmv @15% O2 (three hour average). [District Rule 4102]

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CONDITIONS CONTINUE ON NEXT PAGE

22. The Relative Accuracy Audit and annual compliance tests shall be conducted by an independent laboratory in accordance with EPA guidelines, and witnessed by the District. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Non-compliance with emission limits shall result in either shutdown or curtailment (reduced fuel consumption) for the permit unit, and an Authority to Construct to modify emission limits shall be required. A variance from this requirement cannot be obtained. [District Rule 1100, 6.3] Federally Enforceable Through Title V Permit
24. Failure of catalysts to perform as required because of catalyst poisoning or fouling shall not be recognized as basis for Rule 1100, Section 4.0 (amended 12/17/92) enforcement exemptions. [District Rule 1100, 4.0] Federally Enforceable Through Title V Permit
25. Compliance source testing for NO_x, CO, SO_x, VOCs & ammonia shall be conducted annually (or as approved by the District) within 60 days prior to permit anniversary and official test results & field data submitted within 60 days thereafter. [District NSR Rule] Federally Enforceable Through Title V Permit
26. No annual source testing shall be required for SO_x emissions if the turbine is fired on PUC-regulated natural gas. [District NSR Rule and 40 CFR Part 60.334(h)(3)] Federally Enforceable Through Title V Permit
27. Samples shall be collected during maximum fuel consumption, use of water and NH₃ injection at desired rates, and use of evaporative coolers (if necessary, to test at maximum fuel consumption). [District NSR Rule] Federally Enforceable Through Title V Permit
28. Each one hour period in a three-hour average shall commence upon the hour. The three hour average will be compiled from the three most recent one hour periods. [District NSR Rule] Federally Enforceable Through Title V Permit
29. This facility is part of Chevron's the heavy oil western stationary source, which includes facilities S-1128, S-1129, S-1141, S-1549, and S-2592. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Permittee shall report exceedances of daily emissions limits to the District. [District NSR Rule] Federally Enforceable Through Title V Permit
31. Source testing shall be performed for VOCs according to EPA Method 25 or 18, for CO according to EPA Method 10 or 10B, and for SO_x according to EPA Method 6 or 8. [District Rule 2520, 9.3.2, District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
32. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: emissions control system operating parameters, elapsed time of operation of the turbine, the fuel consumption, and the exhaust gas NO_x and O₂ concentrations. [District NSR Rule, District Rules 2520, 9.3.2, 4703, 6.2.1, 6.2.3 and 40 CFR 60.334(a) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
33. CEM cycling times shall be those specified in 40 CFR, Part 51, Appendix P, Sections 3.4, 3.4.1 and 3.4.2, or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4] Federally Enforceable Through Title V Permit
34. The continuous NO_x and O₂ monitoring system shall meet all the applicable requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA. [District Rule 1080, 6.3, 6.5, 6.6 and 7.2] Federally Enforceable Through Title V Permit
35. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
36. The owner or operator shall maintain records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEM system that has been installed pursuant to District Rule 1080, Section 4.0 (as amended 12/17/92), and emission measurements. [40 CFR 60.8(b) and District Rule 1080, 7.3] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

37. Operators of CEM systems installed at the direction of the APCO shall submit a written report 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 emissions, nature and 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, except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred. [District NSR Rule and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
38. APCO or an authorized representative shall be allowed to inspect, as he or she determines to be necessary, the monitoring devices required by District Rule 1080, Section 11.0 (amended 12/17/92) to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit
39. The owner or operator shall be required to conform to the compliance testing and sampling procedures described in District Rule 1081, Sections 3.0 through 7.0 (as amended 12/16/93). [District Rule 1081, 3.0 through 7.0] Federally Enforceable Through Title V Permit
40. This unit shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [District NSR Rule, District Rule 4801; 40 CFR 60.333(a) and (b); and Kern County Rule 407] Federally Enforceable Through Title V Permit
41. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District NSR Rule, District Rule 4801; 40 CFR 60.334(h)(1); and Kern County Rule 407] Federally Enforceable Through Title V Permit
42. If this unit is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using the Gas Processors Association Method 2377 or ASTM method D 1072, D 4084 or D 3246. [40 CFR 60.335(b)(10)] Federally Enforceable Through Title V Permit
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44. The owner or operator shall annually source test the exhaust emissions for NOx and CO concentration corrected to 15% O2 (dry). EPA Methods 7E or 20 shall be used for NOx emissions. EPA Methods 10 or 10B shall be used for CO emissions. EPA Methods 3, 3A, or 20 shall be used for Oxygen content of the exhaust gas. Results of the CEM system shall be averaged over a three hour period, using consecutive 15-minute sampling periods. [District Rule 4703, 5.1, 6.3.1, 6.4.1, 6.4.2, and 6.4.3] Federally Enforceable Through Title V Permit
45. All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device. [40 CFR 60.13(b)] Federally Enforceable Through Title V Permit
46. The owner or operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 2520, 9.4.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit
47. Results of the CEM system shall be averaged over a one hour period, using consecutive 15-minute sampling periods in accordance with 40 CFR 60.13(e)(2) and (h). [40 CFR 60.13(e)(2) and (h); 40 CFR 60.334(a), (b)(2), (c) and District Rule 4703, 6.2.2 and 6.2.3 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
48. The owner or operator shall not operate the gas turbine under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured NOx emissions concentration exceeding the following: 5 ppmv @ 15% O2 averaged over a three hour period, for the standard option. [District Rule 4703, 5.1.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

49. The owner or operator shall not operate the gas turbine under load conditions, excluding the thermal stabilization period or reduced load period, which results in the measured CO emissions concentration exceeding 200 ppmv @ 15% O₂ averaged over a three hour period. [District Rule 4703, 5.2] Federally Enforceable Through Title V Permit
50. The HHV and LHV of the fuel combusted shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.332(a) and (b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
51. Compliance with permit conditions in the Title V permit shall be deemed compliance with Kern County Rule 407 as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
52. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332(a), (a)(1) and (b), 60.333 (a) and (b); 60.334(a), (c)(2), (c)(3), and 60.335(b), (c)(3), and (d); District Rule 4201 (as amended 12/25/92), Section 3 and 4703 (as amended 4/25/02), Sections 5.1.2, 5.2, 6.1, 6.2.1, 6.3.1, 6.3.3, 6.4.1, 6.4.2, 6.4.3, and 6.4.5 as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
53. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.7(b), 60.8, 60.8(d), 60.13, and 60.13(b); District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 7.0, 7.1, 7.2, 7.3, 8.0, 9.0, 10.0, and 11.0; and 1081 (as amended 12/16/93) as of the date of permit issuance. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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