



DEC - 9 2009

Raymond Rodriguez
McKittrick Limited
34759 Lencioni Ave
Bakersfield, CA 93308-9797

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-1251
Project # S1054571**

Dear Mr. Rodriguez:

The District has issued the Final Renewed Title V Permit for McKittrick Limited. The preliminary decision for this project was made on August 21, 2009. No comments were received subsequent to the District preliminary decision.

The public notice for issuance of the Final Renewed Title V Permit will be published approximately three days from the date of this letter.

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

Sincerely,



David Warner
Director of Permit Services

Attachments

cc: Kamaljit Sran, Permit Services Engineer

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



DEC - 9 2009

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St.
San Francisco, CA 94105

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-1251
Project # S1054571**

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I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

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DEC - 9 2009

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # S-1251
Project # S1054571**

Dear Mr. Tollstrup:

The District has issued the Final Renewed Title V Permit for McKittrick Limited. The preliminary decision for this project was made on August 21, 2009. No comments were received subsequent to the District preliminary decision.

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Bakersfield Californian

**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT
NOTICE OF FINAL DECISION TO ISSUE
RENEWED FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the renewed Federally Mandated Operating Permit to McKittrick Limited for its Cogeneration Power Plant at 4905 Reward Road in McKittrick, California.

The District's analysis of the legal and factual basis for this proposed action, project #S1054571, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. For additional information regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Title V Permit Renewal Evaluation
McKittrick Limited
S-1251

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TITLE V PERMIT RENEWAL EVALUATION
Cogeneration Power Plant

Engineer: Kamaljit Sran
Date: December 3, 2009

Facility Number: S-1251
Facility Name: McKittrick Limited
Mailing Address: 34759 Lencioni Ave.
Bakersfield, CA 93308-9797

Contact Name: Raymond Rodriguez
Phone: (661) 393-6885

Responsible Official: Ed Capehart
Title: Plant Manager

Project # : S-1054571
Deemed Complete: September 21, 2005

I. PROPOSAL

McKittrick Limited was issued its initial Title V permit on December 5, 2002. 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.

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.

On August 18, 2009, the District issued public notice of its preliminary decision to issue the renewed Title V permit for this facility. In accordance with District Rule 2520, copies of proposed permit and evaluation were forwarded to the facility, US EPA, and the California Air Resources Board. Copies were also made available for public review. The notice of District's preliminary decision was published in The Bakersfield Californian (newspaper of general circulation in Kern County) on August 21, 2009. During the review period that followed the notice of preliminary decision, the District received no comments

However on facility's request, District has removed following condition from requirements of permit unit S-1251-1-7, since gas turbine is not equipped with auxiliary burner.

~~48. Any gas turbine with an intermittently operated auxiliary burner shall demonstrate compliance with the auxiliary burner both on and off. [40 CFR 60.335(b)(3) and District Rule 4703, 6.3.3]~~

II. FACILITY LOCATION

McKittrick Limited is located at 4905 Reward Road in McKittrick in Kern County.

III. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit Templates:

A. Template SJV-UM-0-2 Facility Wide Umbrella

The applicant has requested to utilize general permit template SJV-UM-0-2, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

Template SJV-UM-0-2 conditions have been added as conditions 1 through 40 for the renewed facility wide requirements (S-1251-0-2) and replace conditions 1 through 39 of the existing facility wide requirements (S-1251-0-1).

B. Template SJV-GT-1-3 Series 1 Gas Turbines

The applicant has requested to utilize general permit template SJV-GT-1-3, Series 1 Gas Turbines for 48MW GE LM 500 gas fired turbine (permit number S-1251-1-6). Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

The following conditions from the Template SJV-GT-1-3 has not been added to requirements of permit unit S-1251-1-7 since this more stringent NSR requirements are already in place that require fuel sulfur content be less than 0.25 gr/100 scf and NOx & CO concentrations to be less than 3.75 ppmv & 11 ppmv @ 15% O₂.

This unit shall be fired exclusively on natural gas as defined in 40 CFR 60.331(u) which has a total sulfur content of less than or equal to 1.0 gr/100 scf. [40 CFR

60.333(b), District Rule 4201, County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus County)]

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 5 ppmv @ 15% O₂. [40 CFR 60.332(a)(1), (a)(2) and District Rule 4703, 5.1.2.1]

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. [District Rule 4703, 5.2]

The following condition from the Template SJV-GT-1-3 has been modified as shown below to be consistent with NSR fuel sulfur content requirements.

The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored weekly using ASTM Methods D4084, D5504, D6228, or Gas Processors Association Standard 2377. If sulfur content is less than ~~4.0~~ 0.25 gr/100 scf for 8 consecutive weeks, then the Monitoring frequency shall be every six (6) months. If any six (6) month monitoring show an exceedance, weekly monitoring shall resume. [40 CFR 60.334(h)(3) and District Rule 2520, 9.3.2]

V. SCOPE OF EPA AND PUBLIC REVIEW

Model general permit templates have been previously subject to EPA and public review. The terms and conditions from the model general permit templates as identified above are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA and Public review:

Permit Units	Conditions	Template
S-1251-0-2	1 through 40	SJV-UM-0-2
S-1251-1-7	29 through 50	SJV-GT-1-3

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

Following rules are that are applicable to operation of this facility has been updated since issuance of the initial Title V permit.

- District Rule 2020, Exemptions
(amended July 21, 1994 ⇒ amended March 21, 2002)¹
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended December 19, 2002)
- District Rule 2520, Federally Mandated Operating Permits
(adopted June 15, 1995 ⇒ amended June 21, 2001)²
- District Rule 4101, Visible Emissions
(amended December 17, 1992 ⇒ amended November 15, 2001)¹
- District Rule 4601, Architectural Coatings
(amended December 17, 1992 ⇒ amended October 31, 2001)¹

Following Rules are amended from previous Non-SIP version to correct SIP deficiencies and are now included in SIP.

- District Rule 4703, Stationary Gas Turbines
(amended October 16, 1997 ⇒ amended April 25, 2002)³
- 40 CFR 60 Subpart GG - Standards of Performance for Stationary Combustion Turbines³
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos¹
- 40 CFR Part 82, Subparts B and F, Stratospheric Ozone¹

B. Rules Removed

¹ Requirements of this Rule are addressed by Facility wide Umbrella Template SJV-UM-0-2

² Facility wide Umbrella Template SJV-UM-0-2 addresses requirements of Sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16, and 10.0 and Gas Turbine Template SJV-GT-I-3 addresses requirements of Sections 9.3.2 & 9.4.2 for permit units C-1251-I-7

³ Requirements of this Rule are addressed by Gas Turbine Template SJV-GT-I-3 for permit unit S-1251-I-7

Following rules are that were applicable to operation of this facility has been removed since issuance of the initial Title V permit.

- District Rule 8020, 8030, and 8060, Fugitive Dust (PM₁₀) Emissions (amended April 25, 1996)

These rules were removed on November 15, 2001 and were replaced with District Rules 8021, 8031, and 8061.

C. Rules Added

Following rules are that are applicable to operation of this facility has been adopted since issuance of the initial Title V permit.

- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (adopted November 15, 2001)⁴
- District Rule 8031, Bulk Materials (adopted November 15, 2001)⁴
- District Rule 8041, Carryout and Trackout (adopted November 15, 2001)⁴
- District Rule 8051, Open Areas (adopted November 15, 2001)⁴
- District Rule 8061, Paved and Unpaved Roads (adopted November 15, 2001)⁴
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (adopted November 15, 2001)⁴
- 40 CFR 60 Subpart KKKK - Standards of Performance for Stationary Combustion Turbines
- 40 CFR Part 64-Compliance Assurance Monitoring

D. Rules Not Updated

Following rules are that are applicable to operation of this facility has not been updated since issuance of the initial Title V permit.

- District Rule 1080, Source Sampling (amended December 16, 1993)

⁴ Requirements of this Rule are addressed by Facility wide Umbrella Template SJV-IJM-0-2

- District Rule 1081, Stack Monitoring (amended December 17, 1992)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)⁵
- District Rule 1160, Emission Statements (adopted November 18, 1992)⁵
- District Rule 2010, Permits Required (amended December 17, 1992)⁵
- District Rule 2031, Transfer of Permits (amended December 17, 1992)⁵
- District Rule 2040, Applications (amended December 17, 1992)⁵
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)⁵
- District Rule 2080, Conditional Approval (amended December 17, 1992)⁵
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)⁶
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)⁶
- 40 CFR Part 68 - Chemical Accident Prevention Provisions

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

None

B. Rules Not Updated

⁵ Requirements of this Rule are addressed by Facility wide Umbrella Template SJV-UM-D-2

⁶ Requirements of this Rule are addressed by Gas Turbine Template SJV-GT-I-3 for permit units S-1251-I-7

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

Condition 41 of facility wide requirements (S-1251-0-2) is based on the District Rule 4102 and will therefore not be discussed any further.

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.

A. District Rule 2201 - New and Modified Stationary Source Review Rule

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. 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

These regulations apply to demolition or renovation activity, as defined in 40 CFR 61.141. 40 CFR Section 61.150 of this Subpart was amended September 18, 2003, and condition 35 of S-1346 -0-2 assures compliance with the requirements.

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

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). Sections of this regulation were amended in 2004 and 2008, and conditions 27 and 28 of S-1346 -0-2 assure compliance with the requirements.

D. 40 CFR 60 Subpart KKKK

The EPA promulgated this new NSPS that would apply to new stationary combustion turbines greater than or equal to 1 MW that commence construction, modification or reconstruction after February 18, 2005. The gas turbine permit unit S-1251-1-7 was initially constructed before February 18, 2005 and not been modified or reconstructed since. Therefore requirements of this NSPS are not applicable.

E. 40 CFR Part 64-Compliance Assurance Monitoring

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet all three following criteria:

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

This facility has add-on controls only for NO_x & CO in the form of SCR and oxidation catalysts. Therefore CAM is applicable for NO_x and CO. Major source threshold for NO_x is 50,000 lb/yr and CO is 200,000 lb/year.

If the unit has continuous emission monitors (CEMS) for the pollutants for which the facility is considered a Major Source, CAM is not applicable and the equipment is exempt from CAM requirements. The standard conditions that require the CEMs to be installed, calibrated, maintained, and require the data to be reported to ensure that the unit will remain exempt from CAM requirements.

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-0-2

By submitting Model General Permit Template SJV-UM-0-2 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template are included as conditions 39 and 40 of the facility-wide requirements (S-1251-0-2).

2. Model General Permit Template SJV-GT-1-3

By submitting Model General Permit Template SJV-GT-1-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template for permit unit (S-1251-1-3). Therefore, the permit shields as granted in Model General Permit Template is included as conditions 50 and 51 of requirements for permit units S-1251-1-7.

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any permit shield other than as discussed above.

C. Obsolete Permit Shields From Existing Permit Requirements

The exiting facility wide requirements (S-1251-0-1) contain permit shields as conditions 39 & 40. These permit shields have become obsolete since applicant has applied for umbrella template SJV-UM-0-2 and has been replaced permit shields granted as part of this template as discussed in section IX.A.1 above.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XI. ATTACHMENTS

- A. Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List

ATTACHMENT A

Renewed Title V Operating Permit

ATTACHMENT B

Previous Title V Operating Permit

ATTACHMENT C

Detailed Facility List

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Title V Permit Renewal Evaluation
McKittrick Limited
S-1251

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TITLE V PERMIT RENEWAL EVALUATION

Cogeneration Power Plant

Engineer: Kamaljit Sran
Date: December 3, 2009

Facility Number: S-1251
Facility Name: McKittrick Limited
Mailing Address: 34759 Lencioni Ave.
Bakersfield, CA 93308-9797

Contact Name: Raymond Rodriguez
Phone: (661) 393-6885

Responsible Official: Ed Capehart
Title: Plant Manager

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60.333(b), District Rule 4201, County Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus County)]

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V. SCOPE OF EPA AND PUBLIC REVIEW

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For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA and Public review:

Permit Units	Conditions	Template
S-1251-0-2	1 through 40	SJV-UM-0-2
S-1251-1-7	29 through 50	SJV-GT-1-3

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

Following rules are that are applicable to operation of this facility has been updated since issuance of the initial Title V permit.

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(amended July 21, 1994 ⇒ amended March 21, 2002)¹
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended December 19, 2002)
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(amended December 17, 1992 ⇒ amended November 15, 2001)¹
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Following Rules are amended from previous Non-SIP version to correct SIP deficiencies and are now included in SIP.

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(amended October 16, 1997 ⇒ amended April 25, 2002)³
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- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos¹
- 40 CFR Part 82, Subparts B and F, Stratospheric Ozone¹

B. Rules Removed

¹ Requirements of this Rule are addressed by Facility wide Umbrella Template SJV-UM-0-2

² Facility wide Umbrella Template SJV-UM-0-2 addresses requirements of Sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16, and 10.0 and Gas Turbine Template SJV-GT-1-3 addresses requirements of Sections 9.3.2 & 9.4.2 for permit units C-1251-1-7

³ Requirements of this Rule are addressed by Gas Turbine Template SJV-GT-1-3 for permit unit S-1251-1-7

Following rules are that were applicable to operation of this facility has been removed since issuance of the initial Title V permit.

- District Rule 8020, 8030, and 8060, Fugitive Dust (PM₁₀) Emissions (amended April 25, 1996)

These rules were removed on November 15, 2001 and were replaced with District Rules 8021, 8031, and 8061.

C. Rules Added

Following rules are that are applicable to operation of this facility has been adopted since issuance of the initial Title V permit.

- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (adopted November 15, 2001)⁴
- District Rule 8031, Bulk Materials (adopted November 15, 2001)⁴
- District Rule 8041, Carryout and Trackout (adopted November 15, 2001)⁴
- District Rule 8051, Open Areas (adopted November 15, 2001)⁴
- District Rule 8061, Paved and Unpaved Roads (adopted November 15, 2001)⁴
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (adopted November 15, 2001)⁴
- 40 CFR 60 Subpart KKKK - Standards of Performance for Stationary Combustion Turbines
- 40 CFR Part 64-Compliance Assurance Monitoring

D. Rules Not Updated

Following rules are that are applicable to operation of this facility has not been updated since issuance of the initial Title V permit.

- District Rule 1080, Source Sampling (amended December 16, 1993)

⁴ Requirements of this Rule are addressed by Facility wide Umbrella Template SJV-UM-D-2

- District Rule 1081, Stack Monitoring (amended December 17, 1992)
- District Rule 1100, Equipment Breakdown (amended December 17, 1992)⁵
- District Rule 1160, Emission Statements (adopted November 18, 1992)⁵
- District Rule 2010, Permits Required (amended December 17, 1992)⁵
- District Rule 2031, Transfer of Permits (amended December 17, 1992)⁵
- District Rule 2040, Applications (amended December 17, 1992)⁵
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)⁵
- District Rule 2080, Conditional Approval (amended December 17, 1992)⁵
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)⁶
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)⁶
- 40 CFR Part 68 - Chemical Accident Prevention Provisions

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

None

B. Rules Not Updated

⁵ Requirements of this Rule are addressed by Facility wide Umbrella Template SJV-UM-0-2

⁶ Requirements of this Rule are addressed by Gas Turbine Template SJV-GT-1-3 for permit units S-1251-1-7

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

Condition 41 of facility wide requirements (S-1251-0-2) is based on the District Rule 4102 and will therefore not be discussed any further.

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.

A. District Rule 2201 - New and Modified Stationary Source Review Rule

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. 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

These regulations apply to demolition or renovation activity, as defined in 40 CFR 61.141. 40 CFR Section 61.150 of this Subpart was amended September 18, 2003, and condition 35 of S-1346 -0-2 assures compliance with the requirements.

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

These regulations apply to servicing motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC). Sections of this regulation were amended in 2004 and 2008, and conditions 27 and 28 of S-1346 -0-2 assure compliance with the requirements.

D. 40 CFR 60 Subpart KKKK

The EPA promulgated this new NSPS that would apply to new stationary combustion turbines greater than or equal to 1 MW that commence construction, modification or reconstruction after February 18, 2005. The gas turbine permit unit S-1251-1-7 was initially constructed before February 18, 2005 and not been modified or reconstructed since. Therefore requirements of this NSPS are not applicable.

E. 40 CFR Part 64-Compliance Assurance Monitoring

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet all three following criteria:

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

This facility has add-on controls only for NO_x & CO in the form of SCR and oxidation catalysts. Therefore CAM is applicable for NO_x and CO. Major source threshold for NO_x is 50,000 lb/yr and CO is 200,000 lb/year.

If the unit has continuous emission monitors (CEMS) for the pollutants for which the facility is considered a Major Source, CAM is not applicable and the equipment is exempt from CAM requirements. The standard conditions that require the CEMS to be installed, calibrated, maintained, and require the data to be reported to ensure that the unit will remain exempt from CAM requirements.

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-0-2

By submitting Model General Permit Template SJV-UM-0-2 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template are included as conditions 39 and 40 of the facility-wide requirements (S-1251-0-2).

2. Model General Permit Template SJV-GT-1-3

By submitting Model General Permit Template SJV-GT-1-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template for permit unit (S-1251-1-3). Therefore, the permit shields as granted in Model General Permit Template is included as conditions 50 and 51 of requirements for permit units S-1251-1-7.

B. Requirements not Addressed by Model General Permit Templates

The applicant has not requested any permit shield other than as discussed above.

C. Obsolete Permit Shields From Existing Permit Requirements

The exiting facility wide requirements (S-1251-0-1) contain permit shields as conditions 39 & 40. These permit shields have become obsolete since applicant has applied for umbrella template SJV-UM-0-2 and has been replaced permit shields granted as part of this template as discussed in section IX.A.1 above.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit.

XI. ATTACHMENTS

- A. Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List

ATTACHMENT A

Renewed Title V Operating Permit

ATTACHMENT B

Previous Title V Operating Permit

ATTACHMENT C

Detailed Facility List



Permit to Operate

FACILITY: S-1251

EXPIRATION DATE: 03/31/2011

LEGAL OWNER OR OPERATOR:
MAILING ADDRESS:

MCKITTRICK LIMITED
34759 LENCIONI AVENUE
BAKERSFIELD, CA 93308

FACILITY LOCATION:

HEAVY OIL WESTERN
4905 REWARD RD
MCKITTRICK, CA 93251

FACILITY DESCRIPTION:

COGENERATION

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: S-1251-0-2

EXPIRATION DATE: 03/31/2011

FACILITY-WIDE REQUIREMENTS

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 (3/21/02). [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 9.12.1] 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: MCKITTRICK LIMITED
Location: HEAVY OIL WESTERN, 4905 REWARD RD, MCKITTRICK, CA 93251
S-1251-0-2: Dec 3 2009 2:37PM - KEASTMD

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 (11/15/01). 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 the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) 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 (10/31/01). [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 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 82, Subpart B. [40 CFR 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] 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), and Rule 111 (Kern, Tulare, Kings). 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 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). 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. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin January 1 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-1251-1-7

EXPIRATION DATE: 03/31/2011

SECTION: NE13 **TOWNSHIP:** 30S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

48 MW COGENERATION SYSTEM WITH SCR INCLUDING STEWART & STEVENSON GE LM 5000 GAS-FIRED TURBINE, HEAT RECOVERY STEAM GENERATOR, AND INLET AIR ABSORPTION CHILLER AND HEAT EXCHANGER

PERMIT UNIT REQUIREMENTS

1. Maximum heat input rating of General Electric LM 5000 gas-fired turbine engine shall not exceed 457.8 MM Btu/hr, and turbine shall be equipped with combustor steam injection and selective catalytic reduction, utilizing ammonia, for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Turbine engine combustor steam injection system shall be equipped with continuously recording steam to fuel injection rate monitoring system accurate to within +/- 5%. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Unfired heat recovery steam generator shall not be designed for supplementary firing, and shall be equipped with continuously recording NOx emissions monitor located ahead of SCR catalyst and continuously recording NOx, CO and O2 monitors in exhaust stack. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Turbine engine shall be equipped with carbon monoxide reactor of sufficient catalyst volume to meet CO and VOC emissions limits. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Turbine lube oil reservoir shall be equipped with mist collectors with return line to the turbine lube oil reservoir. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Turbine air/oil separator shall be equipped with pre-separator, heat exchanger and air/oil final separator with return lines to turbine lube oil reservoir. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Generator lube oil reservoir shall be equipped with mist collector with return piping to generator lube oil reservoir. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Turbine shall be equipped with continuously recording fuel gas flowmeter and turbine shall utilize only natural gas a fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Circular cross section exhaust stack (after SCR unit) shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and equipped with flow straightener, if necessary, to minimize turbulence. [District Rule 1081] Federally Enforceable Through Title V Permit
10. Ammonia injection grid shall be equipped with operational ammonia flowmeter and injection pressure indicator, and exhaust gas temperature at SCR catalyst inlet shall be monitored by operational temperature indicator. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Turbine engine steam injection rate shall be maintained at a steam to fuel ratio expected to result in compliance with emissions limits, except during periods of startup and shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All gas turbine engine exhaust shall flow through catalyst bed. [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.

13. Inlet gas temperature to catalyst bed shall be maintained within the range recommended by manufacturer except during periods of startup and shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
14. McKittrick Limited shall monitor and record exhaust gas temperature at oxidation catalyst inlet. [District NSR Rule] Federally Enforceable Through Title V Permit
15. Ammonia slip shall not exceed 20 ppmv and daily compliance with ammonia slip limit shall be demonstrated by means of the calculation procedure set forth below. [District Rule 4102]
16. Ammonia slip shall be calculated as: $\text{slip} = \frac{a - (b \times c / 1,000,000)}{1,000,000 / b}$, where a=ammonia injection rate(lb/hr)/17(lb/lb.mol), and b=dry exhaust gas flow rate (lb/hr)/29(lb/lb.mol), and c=change in measured NOx concentration ppmv at stack O2. [District Rule 4102]
17. Fuel gas sulfur content shall not exceed 0.25 gr H2S/100 scf. [District NSR Rule] Federally Enforceable Through Title V Permit
18. Steam produced at this facility for use in oil production operations shall affect only wells connected to well vent vapor recovery systems approved by District. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Maximum VOC emission concentration (as CH4) at turbine exhaust shall not exceed 5.33 ppmv dry at 15% O2, except during periods of startup and shutdown. (BACT requirement, only if catalyst inlet temperature exceeds 800 deg F). [District NSR Rule] Federally Enforceable Through Title V Permit
20. VOC emissions, including emissions from turbine and generator lube oil vents, shall not exceed 5.5 lbs/hr, except during periods of startup and shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Emissions rate from turbine exhaust shall not exceed: 51.9 lbs PM10/day, 7.0 lbs SOx (as SO2)/day, 147.9 lbs NOx/day, 264 lbs CO/day and 130.8 lbs VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Emission concentration of oxides of nitrogen (as NO2) at turbine exhaust shall not exceed 3.75 ppmv dry calculated to 15% O2 averaged over a three hour period, except during periods of startup or shutdown. [District NSR Rule, 4703, 5.1, and 40 CFR 60.332(a)(1) & 60.332(a)(2)] Federally Enforceable Through Title V Permit
23. Emissions concentration of carbon monoxide at turbine exhaust shall not exceed 11 ppmv calculated to 15% O2 averaged over a three hour period, except during periods of startup or shutdown. [District NSR Rule, and 4703, 5.1] Federally Enforceable Through Title V Permit
24. Compliance with NOx (ppmv), CO (ppmv), VOC (ppmv), turbine exhaust VOC (hourly), ammonia (ppmv) emissions limits, and lube oil cooler/accumulating vent opacity shall be demonstrated by District witnessed sample collection and observation annually. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
25. Compliance with fuel gas sulfur content shall be demonstrated by fuel gas sample analysis at time of annual stack gas sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Any lube oil cooler/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested to demonstrate compliance with VOC hourly emissions limit. Official test results/field data shall be submitted within 60 days of testing. [District Rule 1081] Federally Enforceable Through Title V Permit
27. A written record of the compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
28. McKittrick Limited shall keep accurate records of daily fuel consumption of gas turbine engine and shall make records readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
29. 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. [40 CFR 60.334(b) and District Rule 4703, 6.2.1] 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.

30. 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.. [40 CFR 60.334(b)(2) and District Rule 1080, 6.4] Federally Enforceable Through Title V Permit
31. The NOx and O2 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. [40 CFR 60.334(b)(1) and, District Rule 1080, 6.3, 6.5, 6.6, & 7.2] Federally Enforceable Through Title V Permit
32. 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, 7.1] Federally Enforceable Through Title V Permit
33. 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. [40 CFR 60.7(b) and District Rule 1080, 7.3] Federally Enforceable Through Title V Permit
34. 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. [40 CFR 60.334(j), (j)(5) and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit
35. Excess emissions shall be defined as any operating hour in which 4-hour rolling average NOx concentration exceeds applicable emissions limit and a period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NOx or O2 (or both). [40 CFR 60.334(J)(1)(iii)] Federally Enforceable Through Title V Permit
36. APCO or an authorized representative shall be allowed to inspect, as determined to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly. [District Rule 1080, 11.0] Federally Enforceable Through Title V Permit
37. Reduced Load Period shall be defined as the time during which a gas turbine is operated at less than rated capacity in order to change the exhaust gas diverter gate not exceeding one hour. [District Rule 4703, 3.19] Federally Enforceable Through Title V Permit
38. Thermal Stabilization Period shall be defined as the start up or shut down time during which the exhaust gas is not within the normal operating range, not to exceed two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
39. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
40. The sulfur content of each fuel source shall be: (i) documented in a valid purchase contract, a supplier certification, a tariff sheet or transportation contract or (ii) monitored weekly using ASTM Methods D4084, D5504, D6228, or Gas Processors Association Standard 2377. If H2S content is less than 0.25 gr/100 scf for 8 consecutive weeks, then the Monitoring frequency shall be every six (6) months. If any six (6) month monitoring show an exceedance, weekly monitoring shall resume. [40 CFR 60.334(h)(3) and District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

41. Performance testing shall be conducted annually to measure NO_x and CO emission concentrations using the following test methods: EPA Methods 7E or 20 for NO_x emissions, EPA Methods 10 or 10B for CO emissions, EPA Methods 3, 3A, or 20 for Oxygen content of the exhaust gas. The 9-run tests shall be performed at highest physically achievable load of the gas turbine. [40 CFR 60.335(a), (b)(7) and District Rule 4703, 6.3.1, 6.4.1, 6.4.2, & 6.4.3] Federally Enforceable Through Title V Permit
42. The owner or operator shall be required to conform to the sampling facilities and testing procedures described in District Rule 1081, 3.0, & 6.0 (as amended 12/16/93). [District Rule 1081, 3.0 & 6.0] Federally Enforceable Through Title V Permit
43. The District must be notified 30 days prior to any performance testing and a test plan shall be submitted for District approval 15 days prior to such testing. [District Rule 1081, 7.1] Federally Enforceable Through Title V Permit
44. Performance testing shall be witnessed or authorized District personnel. Test results must be submitted to the District within 60 days of performance testing. [District Rule 1081, 7.2, 7.3] 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 Rule 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 three hour period, using consecutive 15-minute sampling periods in accordance with all applicable requirements of CFR 60.13. [40 CFR 60.13 and District Rule 4703, 5.1, 6.4] Federally Enforceable Through Title V Permit
47. Owner or operator shall maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local time start-up and stop time, length and reason for reduced load periods, total hours of operation, type and quantity of fuel used. [District Rule 4703, 6.2.6] Federally Enforceable Through Title V Permit
48. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
49. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: 40 CFR 60.332 (a)(1), (a)(2), 60.333 (b); 60.334(b) (b)(1), (b)(2), (h)(3), (j), (j)(1)(iii), and (j)(5), and 60.335(a), (b)(7), (b)(3), and District Rule 4703 (as amended 4/25/02), Sections 5.1.2.1, 5.2, 6.2.2, 6.2.6, 6.3, and 6.4. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
50. 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, 60.13, and District Rules 1080 (as amended 12/17/92), Sections 6.3, 6.4, 6.5, 6.6, 7.1, 7.2, 7.3, 8.0, and 11.0; 1081 (as amended 12/16/93), Sections 3.0, 6.0, 7.1, 7.2, and 7.3; and 4201 (as amended 12/17/92). 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.

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-1251-0-1

EXPIRATION DATE: 03/31/2006

FACILITY-WIDE REQUIREMENTS

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; Kern County Rule 111] 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; Kern County Rule 111] 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 (3/21/02). [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 9.12.1] 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) (Permits Required) 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: MCKITTRICK LIMITED
Location: HEAVY OIL WESTERN, 4905 REWARD RD, MCKITTRICK, CA 93251
S-1251-0-1: Jul 30 2009 3:39PM - SRANK

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 (11/15/01), by using EPA method 9. 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 Kern County Rule 401] 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 the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) 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 (10/31/01). [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 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 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021(11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout and trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01) [District Rule 8041 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and 8011] 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 permit 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 compliance with the following outdated SIP requirements: Kern County Rule 401, Kern County Rule 111, Kern County Rule 202. 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 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 (12/17/92); 4601, sections 5.1, 5.2, 5.4, 5.5, 6.1, and 6.2 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8061 (11/15/01); A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On December 31, 2002, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan when mandated by the regulation. [40 CFR Part 68] 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-1251-1-6

EXPIRATION DATE: 03/31/2006

SECTION: NE13 TOWNSHIP: 30S RANGE: 21E

EQUIPMENT DESCRIPTION:

48 MW COGENERATION SYSTEM WITH SCR INCLUDING STEWART & STEVENSON GE LM 5000 GAS-FIRED TURBINE, HEAT RECOVERY STEAM GENERATOR, AND INLET AIR ABSORPTION CHILLER AND HEAT EXCHANGER

PERMIT UNIT REQUIREMENTS

1. Maximum heat input rating of General Electric LM 5000 gas-fired turbine engine shall not exceed 457.8 MM Btu/hr, and turbine shall be equipped with combustor steam injection and selective catalytic reduction, utilizing ammonia, for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Turbine engine combustor steam injection system shall be equipped with continuously recording steam to fuel injection rate monitoring system accurate to within +/- 5%. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Unfired heat recovery steam generator shall not be designed for supplementary firing, and shall be equipped with continuously recording NOx emissions monitor located ahead of SCR catalyst and continuously recording NOx, CO and O2 monitors in exhaust stack. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Turbine engine shall be equipped with carbon monoxide reactor of sufficient catalyst volume to meet CO and VOC emissions limits. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Turbine lube oil reservoir shall be equipped with mist collectors with return line to the turbine lube oil reservoir. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Turbine air/oil separator shall be equipped with pre-separator, heat exchanger and air/oil final separator with return lines to turbine lube oil reservoir. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Generator lube oil reservoir shall be equipped with mist collector with return piping to generator lube oil reservoir. [District NSR Rule] Federally Enforceable Through Title V Permit
8. Turbine shall be equipped with continuously recording fuel gas flowmeter and turbine shall utilize only natural gas a fuel. [District NSR Rule] Federally Enforceable Through Title V Permit
9. Circular cross section exhaust stack (after SCR unit) shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and equipped with flow straightener, if necessary, to minimize turbulence. [District Rule 1081] Federally Enforceable Through Title V Permit
10. Ammonia injection grid shall be equipped with operational ammonia flowmeter and injection pressure indicator, and exhaust gas temperature at SCR catalyst inlet shall be monitored by operational temperature indicator. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Turbine engine steam injection rate shall be maintained at a steam to fuel ratio expected to result in compliance with emissions limits, except during periods of startup and shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
12. All gas turbine engine exhaust shall flow through catalyst bed. [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.

13. Inlet gas temperature to catalyst bed shall be maintained within the range recommended by manufacturer except during periods of startup and shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
14. Continuous emission monitors shall be calibrated and operated according to EPA guidelines as specified in 40 CFR, Part 60, Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
15. Audits of continuous emissions monitors shall be conducted quarterly by independent laboratory in accordance with EPA guidelines, witnessed by District, and reports shall be submitted to District within 30 days of such audit. [District Rule 1080 and 40 CFR 60, Appendix F, Section 5.1] Federally Enforceable Through Title V Permit
16. McKittrick Limited shall monitor and record exhaust gas temperature at oxidation catalyst inlet. [District NSR Rule] Federally Enforceable Through Title V Permit
17. Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of three hours and one hour, respectively, per occurrence. [District Rule 4001] Federally Enforceable Through Title V Permit
18. Ammonia slip shall not exceed 20 ppmv and daily compliance with ammonia slip limit shall be demonstrated by means of the calculation procedure set forth below. [District Rule 4102]
19. Ammonia slip shall be calculated as: $\text{slip} = (a - (bcx/1,000,00)) \times 1,000,000/b$, where a=ammonia injection rate(lb/hr)/17(lb/lb.mol), and b=dry exhaust gas flow rate (lb/hr)/29(lb/lb.mol), and c=change in measured NOx concentration ppmv at stack O2. [District Rule 4102]
20. Fuel gas sulfur content shall not exceed 0.25 gr H2S/100 scf. [District NSR Rule] Federally Enforceable Through Title V Permit
21. McKittrick Limited shall comply in full with applicable Rule 4001 (New Source Performance Standards) requirements. [District Rule 4001] Federally Enforceable Through Title V Permit
22. Steam produced at this facility for use in oil production operations shall affect only wells connected to well vent vapor recovery systems approved by District. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Maximum VOC emission concentration (as CH4) at turbine exhaust shall not exceed 5.33 ppmv dry at 15% O2, except during periods of startup and shutdown. (BACT requirement, only if catalyst inlet temperature exceeds 800 deg F). [District NSR Rule] Federally Enforceable Through Title V Permit
24. VOC emissions, including emissions from turbine and generator lube oil vents, shall not exceed 5.5 lbs/hr, except during periods of startup and shutdown. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Emissions rate from turbine exhaust shall not exceed: 51.9 lbs PM10/day, 7.0 lbs SOx (as SO2)/day, 147.9 lbs NOx/day, 264 lbs CO/day and 130.8 lbs VOC/day. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Emission concentration of oxides of nitrogen (as NO2) at turbine exhaust shall not exceed 3.75 ppmv dry calculated to 15% O2 averaged over a three hour period, except during periods of startup or shutdown. [District NSR Rule, 4703, 5.1, and 40 CFR 60.332(a)(1) & 60.332(a)(2)] Federally Enforceable Through Title V Permit
27. Emissions concentration of carbon monoxide at turbine exhaust shall not exceed 11 ppmv calculated to 15% O2 averaged over a three hour period, except during periods of startup or shutdown. [District NSR Rule, and 4703, 5.1] Federally Enforceable Through Title V Permit
28. Compliance with NOx (ppmv), CO (ppmv), VOC (ppmv), turbine exhaust VOC (hourly), ammonia (ppmv) emissions limits, and lube oil cooler/accumulating vent opacity shall be demonstrated by District witnessed sample collection and observation annually. [District NSR Rule and 4703] Federally Enforceable Through Title V Permit
29. Compliance with fuel gas sulfur content shall be demonstrated by fuel gas sample analysis at time of annual stack gas sampling. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Official test results and field data shall be submitted to the District within 60 days of testing. [District Rule 1081] 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.

31. Any lube oil cooler/accumulating vent having visible emissions with an opacity of 5% or greater shall be tested to demonstrate compliance with VOC hourly emissions limit. Official test results/field data shall be submitted within 60 days of testing. [District Rule 1081] Federally Enforceable Through Title V Permit
32. A written record of the compliance demonstrations shall be maintained and made available for District inspection for a period of five years. [District NSR Rule and 2520, 9.4.2] Federally Enforceable Through Title V Permit
33. McKittrick Limited shall keep accurate records of daily fuel consumption of gas turbine engine and shall make records readily available for District inspection upon request. [District NSR Rule] Federally Enforceable Through Title V Permit
34. 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. [40 CFR 60.333(a) & (b); Kern County Rule 407] Federally Enforceable Through Title V Permit
35. Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
36. Thermal Stabilization Period shall be defined as the start up or shut down time necessary to bring the heat recovery steam generator to proper temperature, not exceeding two hours. [District Rule 4703, 3.25] Federally Enforceable Through Title V Permit
37. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [Kern County Rule 108.1 and District Rule 1081] Federally Enforceable Through Title V Permit
38. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
39. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit of 40 CFR 60 unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit
40. Nitrogen oxides (NOx) and oxygen (O2) concentrations shall be determined using EPA Method 7E and 20. If EPA Method 20 is used, the span values shall be 300 ppm of NOx and 21 percent O2. [District Rule 4703, 6.440, 40 CFR 60.335(b) and CFR 60.335(c)(2),(3)] Federally Enforceable Through Title V Permit
41. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [Kern County Rule 108 and District Rule 1080, 7.2] Federally Enforceable Through Title V Permit
42. Records shall be maintained and shall contain: 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's that have been installed pursuant to District Rule 1080, and emission measurements. [Kern County Rule 108, District Rule 1080, 7.3 and 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
43. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills to demonstrate use of PUC-regulated natural gas by the turbine. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
44. Results of continuous emission monitoring must be averaged in accordance with the requirements of 40 CFR 60.13. [District Rule 4703, 5.0] Federally Enforceable Through Title V Permit
45. 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. [40 CFR 60.332(a),(b) and District Rule 4703, 6.2.4] 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. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: 40 CFR 60.333 (a) and (b); 60.334(a),(b), and (c)(1); Kern County Rule 404; Kern County Rule 108; Kern County Rule 108.1; SJVUAPCD Rules 4703, Section 6.2.2 and 1080, 7.3. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
47. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4201, 1081 and 1080, Sections 6.5, 7.2, 8.0, 9.0, and 10.0; Kern County Rule 407; 40 CFR 60.332(c) and (d); 60.334(b) and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
48. Compliance with permit conditions in the Title V permit shall be deemed compliance with District Rule 4703 (Amended 4/25/02). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
49. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: 40 CFR 60.332(a), (b); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
50. The continuous NOx monitoring system shall meet the performance specification 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. [Kern County Rule 108 and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit
51. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [Kern County Rule 108 and District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
52. 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. [Kern County Rule 108 and District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
53. Operators of CEM's 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: A. time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; B. 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; C. 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; D. a negative declaration when no excess emissions occurred. [Kern County Rule 108 and District Rule 1080, 8.0] Federally Enforceable Through Title V Permit

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ATTACHMENT C

Detailed Facility List

Detailed Facility Report
For Facility=1251
Sorted by Facility Name and Permit Number

MCKITTRICK LIMITED HEAVY OIL WESTERN 4905 REWARD RD MCKITTRICK, CA 93251	FAC.# STATUS TELEPHONE:	S 1251 A (661) 393-6885	TYPE: TOXIC.ID:	TitleV 50150	EXPIRE ON: AREA: INSP. DATE:	03/31/2014 3 / 04/10
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1251-1-6	48 MW	3020-08A G	1	10,215.00	10,215.00	A	48 MW COGENERATION SYSTEM WITH SCR INCLUDING STEWART & STEVENSON GE LM 5000 GAS-FIRED TURBINE, HEAT RECOVERY STEAM GENERATOR, AND INLET AIR ABSORPTION CHILLER AND HEAT EXCHANGER

Number of Facilities Reported: 1