



DEC 27 2011

Glenn Mount Modesto Irrigation District PO Box 4060 Modesto, CA 95352

Re: Notice of Final Action - Title V Permit

> District Facility # N-4940 Project # N-1071091

Dear Mr. Mount:

The District has issued the Final Title V Permit for Modesto Irrigation District. The preliminary decision for this project was made on August 9, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final 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

Gurpreet Brar, Permit Services Engineer CC:

Seved Sadredin

Executive Director/Air Pollution Control Officer





DEC 27 2011

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

District Facility # N-4940 Project # N-1071091

Dear Mr. Rios:

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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.

Sincerely,

Da∀id Warner

Director of Permit Services

Attachments

cc: Gurpreet Brar, Permit Services Engineer

Seyed Sadredin

Executive Director/Air Pollution Control Officer





DEC 27 2011

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

Notice of Final Action - Title V Permit

District Facility # N-4940 Project # N-1071091

Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Modesto Irrigation District. The preliminary decision for this project was made on August 9, 2011. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

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Sincerely,

David Warner

Director of Permit Services

Attachments

Gurpreet Brar, Permit Services Engineer CC:

Seyed Sadredin

Executive Director/Air Pollution Control Officer

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT NOTICE OF FINAL DECISION TO ISSUE 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 initial Federally Mandated Operating Permit to Modesto Irrigation District for its Power Generation Facility at 1015 South Stockton Avenue in Ripon, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1071091, 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 UNIFIED AIR POLLUTION CONTROL DISTRICT

Modesto Irrigation District

FINAL ENGINEERING EVALUATION

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INITIAL TITLE V PERMIT APPLICATION REVIEW

Project #: N-1071091 Deemed Complete: April 3, 2007

Engineer: Gurpreet Brar Date: November 3, 2011

Facility Number: N-4940

Facility Name: Modesto Irrigation District

Mailing Address: PO Box 4060

Modesto, CA 95352

Contact Name: Glenn Mount

Phone: (209) 526-7550

Responsible Official: Glenn Mount

Title: Generation Manager

I. PROPOSAL

Modesto Irrigation District is proposing that an initial Title V permit be issued for its peaking power generation facility located in Ripon. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions.

II. FACILITY LOCATION

Modesto Irrigation District is located at 1015 South Stockton Avenue in Ripon, CA.

III. EQUIPMENT LISTING

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

A summary of the exempt equipment categories, which describe the insignificant activities or equipment at the facility not requiring a permit, is shown in Attachment B. This equipment is not exempt from facility-wide requirements.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant has requested to use the facility-wide umbrella general permit template (SJV-UM-03). Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and 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.

 Conditions 1 through 40 of permit unit N-4940-0-1, including their underlying applicable requirements, originate from the model general permit template and are not subject to further EPA and Public review.

VI. APPLICABLE REQUIREMENTS

A. Rules Addressed by General Permit Template

- District Rule 1100, <u>Equipment Breakdown</u>, (amended December 17, 1992)
- District Rule 1160, Emission Statements, (adopted November 18, 1992)
- District Rule 2010, Permits Required, (amended December 17, 1992)
- District Rule 2020, Exemptions, (amended August 18, 2011)
- District Rule 2031, <u>Transfer of Permits</u>, (amended December 17, 1992)
- District Rule 2040, Applications, (amended December 17, 1992)
- District Rule 2070, <u>Standards for Granting Applications</u>, (amended December 17, 1992)
- District Rule 2080, Conditional Approval, (amended December 17, 1992)
- District Rule 2520, <u>Federally Mandated Operating Permits</u>, (amended June 21, 2001)
- District Rule 4101, Visible Emissions, (amended February 17, 2005)
- District Rule 4601, <u>Architectural Coatings</u>, (amended December 17, 2009)
- District Rule 8021, <u>Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities</u>, (amended August 19, 2004)
- District Rule 8031, <u>Bulk Materials</u>, (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout, (amended August 19, 2004)
- District Rule 8051, Open Areas, (amended August 19, 2004)

- District Rule 8061, <u>Paved and Unpaved Roads</u>, (amended August 19, 2004)
- District Rule 8071, <u>Unpaved Vehicle/Equipment Traffic Areas</u>, (amended September 16, 2004)
- 40 CFR Part 61, Subpart M, <u>National Emission Standard for Asbestos</u>, (amended September 18, 2003)
- 40 CFR Part 82, Subpart B, <u>Stratospheric Ozone</u>, (amended November 9, 2007)
- 40 CFR Part 82, Subpart F, <u>Stratospheric Ozone</u>, (amended June 8, 2008)

B. Rules Not Addressed by General Permit Template

- District Rule 1080, Stack Monitoring, (amended December 17, 1992)
- District Rule 1081, Source Sampling, (amended December 16, 1993)
- District Rule 2201, <u>New and Modified Stationary Source Review Rule</u>, (amended April 21, 2011)
- District Rule 2520, <u>Federally Mandated Operating Permits</u>, (amended June 21, 2001)
- District Rule 4201, <u>Particulate Matter Concentration</u>, (amended December 17, 1992)
- District Rule 4703, <u>Stationary Gas Turbines</u>, (amended August 17, 2006)
- District Rule 4801, <u>Sulfur Compounds</u>, (amended December 17, 1992)
- 40 CFR Part 60 Subpart A, <u>General Provisions Excess Emission Reports</u>, <u>Conducting Performance Tests</u>, <u>Continuous Emission Monitoring Requirements</u>

- 40 CFR 60 Subpart GG, <u>Standards of Performance for Stationary Gas Turbines</u>
- 40 CFR 60 Subpart KKKK, <u>Standards of Performance for Stationary Gas</u> <u>Turbines</u>
- 40 CFR 63 Subpart YYYY, <u>National Emissions Standards for Hazardous Air</u> Pollutants for Stationary Combustion Turbines
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)
- 40 CFR Part 72, Acid Rain Program
- 40 CFR Part 73, Sulfur Dioxide Allowance System
- 40 CFR Part 75, Continuous Emission Monitoring
- 40 CFR Part 77, Excess Emissions

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 part of the Title V operating permit. The terms and conditions that are part of the facility's Title V permit are designated as Federally Enforceable Through Title V Permit.

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

1. District Rule 4102, Nuisance

The purpose of this rule is to protect the health and safety of the public. The rule was last amended on December 17, 1992, and the current version has not been approved into the SIP.

a. N-4940-0-1: FACILITYWIDE REQUIREMENTS

Condition 41 of the facilitywide requirements is based on Rule 4102 and is therefore not federally enforceable.

b. N-4940-1-3 & -2-3: 47.5 MW NATURAL GAS-FIRED TURBINE

Condition 32 on the proposed permits to operate ensure compliance with the requirements of this rule and is therefore not federally enforceable

VIII. COMPLIANCE

1. District Rule 1080, Stack Monitoring

This Rule grants the APCO the authority to request the installation and use of continuous emissions monitors (CEMs), and specifies performance standards for the equipment and administrative requirements for record keeping, reporting, and notification. The rule was last amended on December 17, 1992, and was approved into the SIP on April 26, 2004.

Section 4.0 requires that upon the request of the APCO and as directed by him, the owner shall provide, install, and operate continuous monitoring equipment on such operations as directed. The owner shall maintain, calibrate, and repair the equipment and shall keep the equipment operating at design capabilities.

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

Section 6.5 and 6.6 require that the continuous NOx and O2 monitors shall meet the applicable performance specification requirements in 40 CFR, Part 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the Environmental Protection Agency.

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

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

Section 8.0 requires that 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 preventative measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period and used to determine compliance with an emissions 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.

Section 11.0 requires that the APCO or an authorized representative shall inspect, as he determines to be necessary, the monitoring devices required by this rule to ensure that such devices are functioning properly.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 5, 7, 8, 10, 11, 12, 13 and 46 on the proposed permits to operate ensure compliance with the requirements of this rule.

2. District Rule 1081, Source Sampling

District Rule 1081 was last amended on December 16, 1993, and was approved into the SIP on April 26, 2004.

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

Section 3.0 stipulates that upon request and direction of the APCO, the owner of any source operation which emits or may emit air contaminants for which emission limits have been established shall provide sampling ports, sampling platforms, and access to sampling platforms, constructed in accordance with the general industry safety orders of the State of California.

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

Sections 5.0 stipulates that if a test method is not specified in the applicable rule, the test shall be conducted in accordance with Title 40 CFR Subpart 60 Appendix A - Reference Methods, except source tests for PM10 for compliance with Rule 2201 (New and Modified Stationary Source Review) requirements, which shall be conducted in accordance with Title 40 CFR Subpart 51, Appendix M, Method 201 or 201A. This section further specifies that if no test method exists in the preceding references for a source type, source sampling shall be conducted in accordance with CARB approved methods.

Section 6.0 stipulates that: (a) for the purpose of determining compliance with an applicable standard or numerical limitation, the arithmetic mean of three (3) test runs shall apply, unless two (2) of the three (3) results are above the applicable limit; (b) a scheduled source test may not be discontinued solely due to the failure of one or more runs to meet applicable standards; (c) in the event that a sample is accidentally lost or conditions occur in which one (1) of the three (3) runs must be discontinued because circumstances beyond the owner or operators control, upon the APCO's approval, compliance may be determined using the arithmetic mean of the other two (2) runs.

Section 7.0 specifies administrative requirements, including the following: (a) the District must be notified 30 days prior to any compliance source testing and the owner shall submit a source test plan for District approval 15 days prior to source sampling; (b) source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel; and (c) source test reports must be submitted to the District within 60 days of completion of field testing, regardless of pass or fail status.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 9, 34 through 42 and 45 on the proposed permits to operate ensure compliance with the requirements of this rule.

3. District Rule 2201, New and Modified Stationary Source Review Rule (District NSR Rule)

For this facility, all the emission units have become subject to the District NSR Rule due to application for Authority to Construct (ATC). In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTOs were addressed to define how NSR permit terms should be incorporated into the Title V permit.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 1 through 6, 14 through 17, 20 through 29, 31, 32, 33, 37 through 40, 42 and 49 on the proposed permits to operate ensure compliance with the requirements of this rule.

4. District Rule 2520, Federally Mandated Operating Permits

Section 13.2 provides that compliance with permit conditions in part 70 permits that expressly state that a permit shield exists shall be deemed compliance with the applicable requirements on which the permit conditions are based.

N-4940-0-1: FACILITY-WIDE REQUIREMENTS

Condition 5, 8 through 21, 26, 36 through 40 and 43 on the facility-wide requirements ensure compliance with the requirements of this rule.

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

5. District Rule 4201, Particulate Matter Concentration

District Rule 4201 was last amended on December 17, 1992, and was approved into the SIP on April 4, 2002.

The purpose of this rule is to protect the ambient air quality by establishing a particulate matter emission standard.

Section 3.0 stipulates that a person shall not release or discharge into the atmosphere from any single source operation, dust, fumes, or total suspended particulate matter emissions in excess of 0.1 grain per cubic foot of gas at dry standard conditions, as determined by the test methods in section 4.0. Section 4.0 specifies the test methods for demonstration of compliance with section 3.0.

N-4940-0-1: FACILITY-WIDE REQUIREMENTS

Condition 42 on the facility-wide requirements ensures compliance with the requirements of this rule.

6. District Rule 4703, Stationary Gas Turbines

The purpose of this rule is to limit oxides of nitrogen (NOx) emissions from stationary gas turbine systems. This rule is applicable to all stationary gas turbine systems, which are subject to District permitting requirements, and with ratings equal to or greater than 0.3 megawatt (MW) or a maximum heat input rating of more than 3,000,000 Btu per hour, except as provided in Section 4.0.

Section 5.1.1 (Tier I) of this rule limits the NO_X emissions from stationary gas turbine systems greater than 10 MW, and equipped with Selective Catalytic Reduction (SCR), based on the following equation:

$$NO_X$$
 (ppmv @ 15% O_2) = $9 \times \left(\frac{EFF}{25}\right)$

Where EFF is the higher of EFF₁ or EFF₂, and:

$$EFF_{1} = \frac{3,412 \frac{Btu}{kW - hr}}{Actual \ Heat \ Rate @ \ HHV \left(\frac{Btu}{kW - hr}\right)} \times 100, \ and \ EFF_{2} = EFF_{MFR} \frac{LHV}{HHV}$$

For the subject equipment, the Actual Heat Rate @ HHV is 7,815 Btu/kW-hr. Therefore:

EFF₁ =
$$\frac{3,412 \frac{Btu}{kW - hr}}{7,815 \frac{Btu}{kW - hr}} \times 100 = 43.66\%$$

$$NO_X$$
 limit utilizing EFF₁ = $9 \times \left(\frac{43.66}{25}\right)$ = 15.7 ppmvd @ 15% O_2

EFF₂ calculations are not necessary since Rule 4703 emission limits will be no lower than 9 ppmv NO_X and the subject turbines will be limited to a maximum of 2.5 ppmv NO_X @ 15% O_2 (based on a 1-hour average).

Section 5.1.2 (Tier 2) of this rule limits the NO_X emissions from simple cycle, stationary gas turbine systems rated at greater than 10 MW and allowed to operate more than 876 hours per year to 5 ppmv @ 15% O_2 (Standard option) and 3 ppmv @ 15% O_2 (Enhanced Option). Section 7.2.1 (Table 7-1) sets a compliance date of April 30, 2004 for the Standard Option and Section 7.2.4 sets a compliance date of April 30, 2008 for the Enhanced Option. The subject turbines are limited to 2.5 ppmv @ 15% O_2 (based on a 1-hour average).

Section 5.2 limits the CO emissions concentration from the subject turbines to less than 200 ppmvd @ 15% O₂.

Section 5.3 provides that NOx and CO emission limits of Section 5.1 and Section 5.2 shall not apply during a transitional operation period, which includes bypass transition period, as defined in Section 3.0, provided an operator complies with the applicable requirements specified in Sections 5.3.1 and 5.3.2.

Section 5.3.1 requires the an operator to meet the following conditions:

- The duration of each startup or each shutdown shall not exceed two hours, and the duration of each reduced load period shall not exceed one hour.
- The emission control system shall be in operation and emissions shall be rninimized insofar as technologically feasible during startup, shutdown, or a reduced load period.
- An operator may submit an application to allow more than two hours for each startup or each shutdown or more than one hour for each reduced load period provided the operator meets all of the conditions specified in the rule.

Section 5.3.2 requires the emission control system to be in operation and emissions shall be minimized insofar as technologically feasible during each transitional operation period.

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

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

Section 6.2.6 requires the facility to maintain a stationary gas turbine system operating log that includes, on a daily basis, the actual local startup and stop time, length and reason for reduced load periods, total hours of operation, and the type and quantity of fuel used.

Section 6.2.8 requires owners or operators performing startups or shutdowns to keep records of the duration of each startup and shutdown. Section 6.3.1 states that the owner or operator of any stationary gas turbine system subject to the provisions of Section 5.0 of this rule shall provide source test information annually regarding the exhaust gas NO_X and CO concentrations.

Section 6.3.1 states that the owner or operator of any stationary gas turbine system subject to the provisions of Section 5.0 of this rule shall provide source test information annually regarding the exhaust gas NO_X and CO concentrations.

Section 6.4 states that the facility must demonstrate compliance annually with the NO_X and CO emission limits using the following test methods, unless otherwise approved by the APCO and EPA:

- Oxides of nitrogen emissions for compliance tests shall be determined by using EPA Method 7E or EPA Method 20.
- Carbon monoxide emissions for compliance tests shall be determined by using EPA Test Methods 10 or 10B.
- Oxygen content of the exhaust gas shall be determined by using EPA Methods 3, 3A, or 20.
- HHV and LHV of gaseous fuels shall be determined by using ASTM D3588-91, ASTM 1826-88, or ASTM 1945-81.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 4 through 6, 17, 18, 19, 20, 21, 31, 37, 38, 42, 43, 45, 47, 48 and 50 on the proposed permits to operate ensure compliance with the requirements of this rule.

7. District Rule 4801 and County Rule 407 - Sulfur Compounds

District Rule 4801 was last amended on December 17, 1992, and has been submitted to the EPA to replace Stanislaus County Rule 407 in the SIP. This District Rule is at least as stringent as the county rule, as demonstrated by the comparison below:

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

Both District Rule 4801 and County Rule 407 stipulate a limit on sulfur compounds. The limit at the point of discharge is 0.2 percent by volume, which is 2,000 ppmv, calculated as sulfur dioxide (SO₂), on a dry basis averaged over 15 consecutive minutes. Since this limit is the same for both rules, District Rule 4801 is at least as stringent as the county rule.

Compliance is expected as shown by the following calculations at 1 grain of total sulfur per 100 standard cubic feet of gas, assuming all sulfur is converted to SO_2 .

$$\%S(lb/lbNG) = \left(\frac{1\,gr}{100\,scf}\right) \left(\frac{1\,lb}{7000\,gr}\right) \left(\frac{24.5\,L}{mol\,NG}\right) \left(\frac{1\,mol}{16\,g}\right) \left(\frac{454\,g}{1\,lb}\right) \left(\frac{0.035\,scf}{1\,L}\right) (100)$$

= 0.00348% sulfur by weight

lb SO_2/scf gas = $(0.0000348)(1 lb/23.8 scf gas)(64 lb <math>SO_2/32 lb S)$

= 2.92 E-6 lb SO_2/scf gas

lb $SO_2/V_{exhaust}$ = (lb SO_2/scf gas) ÷ (F factor) (Btu content of gas)

$$\left(\frac{\text{lb SO}_2}{\text{Vexhaust}}\right) = \frac{\left(2.92\,\text{E} - 6\,\frac{\text{lb SO}_2}{\text{scf gas}}\right)\!\left(\frac{10^6\,\text{Btu}}{\text{MMBtu}}\right)}{\left(8710\,\frac{\text{dscf}}{\text{MMBtu}}\right)\!\left(1000\,\frac{\text{Btu}}{\text{scf}}\right)} = 3.35\,\text{E} - 7\,\frac{\text{lb SO}_2}{\text{dscf exhaust}}$$

 $V_{SO2}/V_{exhaust} = nRT/P$

where,

n = moles SO_2 = (3.35 E-7 lb SO_2 /dscf exhaust)/(64 lb SO_2 / lb-mol)

R = universal gas constant = 10.73 psi-ft³/lb-mol- R

T = standard temperature = 60 F = 520 R

P = standard pressure = 14.7 psi

$$Therefore, \ \left(\frac{V \text{ so}_2}{V \text{ exhaust}}\right) = \frac{\left(\frac{3.35 \text{ E} - 6 \text{ lb SO}_2}{\text{dscf exhaust}}\right) \left(\frac{10.73 \text{ psi} - \text{ft}^3}{\text{lb} - \text{mole} - {}^{\circ}\text{R}}\right) \! \left(520 \, {}^{\circ}\text{R}\right)}{\left(\frac{64 \text{ lb SO}_2}{\text{lb} - \text{mol}}\right) \! \left(14.7 \text{ psi}\right)} = 1.99 \text{E} - 6 \frac{\text{dscf exhaust}}{\text{dscf exhaust}}$$

= 1.99 ppmv dry << 2,000 ppmv

Compliance with 2,000 ppmv is assured because the subject turbines are limited to using only natural gas with sulfur content of 1.0 gr/100 scf.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, condition 14 on the proposed permits to operate ensure compliance with the requirements of this rule.

8. 40 CFR Part 60 Subpart A, <u>General Provisions – Excess Emission</u> Reports, Conducting Performance Tests, Continuous Emission Monitor Requirements

This subpart contains requirements for reporting of excess emissions (60.7), conducting performance tests (60.8), and performance standards for CEMS (60.13). These requirements are subsumed within the monitoring, recordkeeping, and reporting requirements associated with the NOx requirements from District Rules 4703 and 1081. Therefore, the permit units N-4940-1-3 & -2-3 comply with the requirements 40 CFR 60 Subpart A.

9. 40 CFR 60 Subpart GG, <u>Standards of Performance for Stationary Gas</u> Turbines

The provisions of this subpart are applicable to all stationary gas turbines with a heat input at peak load equal to or greater than 10 million Btu per hour. Section 60.334 and 60.335 of this Subpart was amended February 24, 2006.

The amended provisions, 40 CFR 60.334(c), (e), and (f) clarify that the monitoring methods are options rather than requirements for turbines that do not use water or steam to control NO $_{\rm X}$ emissions. In addition, the introductory text of 46 CFR 60.334(j), 60.334(j)(1)(iv), and 40 CFR 60.335(b)(8) were also revised to reflect the amended provisions of 40 CFR 60.334(c), (e), and (f). Since these permit units use water/steam injection to control NO $_{\rm X}$ emissions, the amended provisions are not applicable to these gas turbines.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 4, 5, 10, 13, 14, 37, 43, 44 and 45 on the proposed permits to operate ensure compliance with the requirements of this rule.

10. 40 CFR 60 Subpart KKKK, <u>Standards of Performance for Stationary</u> Gas Turbines

40 CFR Part 60 Subpart KKKK applies to all stationary gas turbines rated at greater than or equal to 10 MMBtu/hr that commence construction, modification, or reconstruction after February 18, 2005. Modesto Irrigation District had started its construction in July of 2004; therefore, it is not subject to the requirements of subpart.

11. 40 CFR 63 Subpart YYYY, <u>National Emissions Standards for</u> Hazardous Air Pollutants for Stationary Combustion Turbines

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emissions from stationary combustion turbines located at major sources of HAP emissions, and requirements to demonstrate initial and continuous compliance with the emission and operating limitations.

Pursuant to section 63.6085(a), a major source of HAP emissions is a contiguous site under common control that emits or has the potential to emit any single HAP at a rate of 10 tons or more per year or any combination of HAP at a rate of 25 tons or more per year. The facility is not a major source of HAP emissions and is not subject to this subpart.

12. 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

To be subject to CAM for a particular pollutant, an emissions unit must meet <u>all</u> of the following criteria:

- i. The unit must have an emission limit for the pollutant,
- ii. The unit must have add-on controls for the pollutant, and
- iii. The pre-control potential to emit for the unit must exceed major source thresholds.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

- 1) These units contain emission limits for NO_X , SO_X , PM_{10} , CO, and VOC.
- There are no add-on controls for SO_X or PM_{10} emissions. Therefore, these are not subject to CAM for SO_X or PM_{10} emissions. These units are equipped with add-on control devices (SCR) for NOx emissions and have continuous emission monitoring systems (CEMS) for NOx and CO emissions, therefore, these are exempt from additional CAM requirements. The standard conditions that require the CEMs to be installed, calibrated, maintained, and require the data to be reported ensure that the equipment will remain exempt from CAM requirements. However, this permit unit may be subject to CAM for VOC emissions as it has add-on control in the form of an oxidation catalytic system.

3) The pre-control VOC emissions from each of these units is calculated based on the uncontrolled emission factor of 1.6 lb-VOC/hr or 2.0 ppmv @ 15% O₂ and maximum operating time of 8,760 hr/yr.

1.6 lb-VOC/hr x 8,760 hrs/yr = 14,016 lb-VOC/yr.

The pre-control VOC potential to emit is less than the major source threshold of 20,000 lb-VOC/year as shown above. Therefore, this unit is not subject to CAM for VOC emissions.

13. 40 CFR 60 Part 72, Acid Rain Program

The purpose of this part is to establish certain general provisions and the operating permit program requirements for affected sources and affected units under the Acid Rain Program.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 51, 56, 57, 59, 60, 61 and 64 on the proposed Title V operating permits ensure compliance with the requirements of this part.

14. 40 CFR 60 Part 73, Sulfur Dioxide Allowance System

The purpose of this part is to establish the requirements and procedures for the following:

- (a) The allocation of sulfur dioxide emissions allowances;
- (b) The tracking, holding, and transfer of allowances;
- (c) The deduction of allowances for purposes of compliance and for purposes of offsetting excess emissions pursuant to parts 72 and 77;
- (d) The sale of allowances through EPA-sponsored auctions and a direct sale, including the independent power producers written guarantee program; and
- (e) The application for, and distribution of, allowances from the Conservation and Renewable Energy Reserve.
- (f) The application for, and distribution of, allowances for desulfurization of fuel by small diesel refineries.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 54 and 58 on the proposed Title V operating permits ensure compliance with the requirements of this part.

15. 40 CFR 60 Part 75, Continuous Emission Monitoring

The purpose of this part is to establish requirements for the monitoring, recordkeeping, and reporting of sulfur dioxide (SO_2), nitrogen oxides (NO_X), and carbon dioxide (CO_2) emissions, volumetric flow, and opacity data from affected units under the Acid Rain Program.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 52, 53, 56, 65 and 66 on the proposed Title V operating permits ensure compliance with the requirements of this part.

16. 40 CFR 60 Part 77, Excess Emissions

This part sets forth the excess emissions offset planning and offset penalty requirements under section 411 of the Clean Air Act. These requirements shall apply to the owners and operators and, to the extent applicable, the designated representative of each affected unit and affected source under the Acid Rain Program.

N-4940-1-3 & -2-3 (47.5 MW EACH NATURAL GAS-FIRED TURBINES):

For these permit units, conditions 55, 62 and 63 on the proposed Title V operating permits ensure compliance with the requirements of this part.

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. The following permit shields are granted as requested by the applicant:

N-4940-0-1: FACILITY-WIDE REQUIREMENTS

A permit shield is being granted for facilitywide requirements in conditions 39 and 40 of the proposed facility-wide permit to operate.

X. PERMIT CONDITIONS

See proposed permit to operate conditions beginning on the following page.

Attachment A Detailed Facility Report

SJVUAPCD NORTHERN

Detailed Facility Report For Facility=4940

11/3/11 3:22 pm

Sorted by Facility Name and Permit Number

MODESTO IRRIGATION DISTRICT 1015 S STOCKTON AVE RIPON, CA 95366			FAC # STATUS: TELEPHONE:		N 4940 A		TYPE: TitleV EXPIRE ON: 03/31/2016 TOXIC ID: AREA: 3 / INSP. DATE: 05/12
PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-4940-1-3	47,500 kW	3020-08B G	1	10,215.00	10,215.00	А	47.5 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A 500 MMBTU/HR GENERAL ELECTRIC, MODEL LM6000 SPRINT, NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH A WATER SPRAY PREMIXED COMBUSTION SYSTEM, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH AMMONIA INJECTION AND AN OXIDATION CATALYST
N-4940-2-3	47,500 kW	3020-08B G	1	10,215.00	10,215.00	А	47.5 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A 500 MMBTU/HR GENERAL ELECTRIC, MODEL LM6000 SPRINT, NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH A WATER SPRAY PREMIXED COMBUSTION SYSTEM, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH AMMONIA INJECTION AND AN OXIDATION CATALYST

Number of Facilities Reported: 1

Attachment B

Exempt Equipment

San Joaquin Valley Unified Air Pollution Control District

Title V Application - INSIGNIFICANT ACTIVITIES

COMPANY NAME: MODESTO IRRIGATION DISTRICT

FACILITY ID: **N - 4940**

Check the box next to the exemption category from Rule 2020 which describes any insignificant activity or equipment at your facility not requiring a permit.

Exemption Category	Rule 2020 Citation	1	Exemption Category	Rule 2020 Citation	√
Structure or incincrator assoc. with a structure designed as a dwelling for 4 families or less	4.1		Containers used to store refined lubricating oils	6.6.8	1
Locomotives, airplanes, and watercraft used to transport passengers or freight	4.4		Unvented pressure vessels used exclusively to store liquified gases or assoc with exempt equipment	6.6.9 or 6.13	
Natural gas or LPG-fired boilers or other indirect heat transfer units of 5 MMBtu/hr or less	6.1.1		Portable tanks used exclusively to store produced fluids	6.6.10	
Piston-type i.c.engine with maximum continuous rating of 50 braking horsepower (bhp) or less	6.1.2		for ≤ six months Mobile transport tanks on delivery vehicles of VOCs	6.6.11	
Gas turbine engines with maximum heat input rating of 3 MMBtu/hr or less	6.1.3		Loading racks used for the transfer of less than 4,000 gal/day of unheated organic material with initial boiling point ≥ 302 F or of fuel oil with specific gravity ≥0.8251	6.7.1.1	
Space heating equipment other than boilers			Loading racks used for the transfer of asphalt, crude or residual oil stored in exempt tanks, or crude oil with	6.7.1.2	
Cooling towers with a circulation rate less than 10,000 gal/min, and that are not used for cooling of process water, or water from barometric jets or condensers++	6.2	√	specific gravity ≥ 0.8762 Equipment used exclusively for the transfer of refined hubricating oil	6.7.2	1
Use of less than 2 gal/day of graphic arts materials	6.3		Equipment used to apply architectural coatings	6.8.1	Y
Equipment at retail establishments used to prepare food for human consumption	6.4.1		Unheated, non-conveyorized cleaning equipment with < 10 ft ² open area; using solvents with initial boiling	6.9	1
Ovens at bakeries with total daily production less than 1,000 pounds and exempt by sec. 6.1.1	6.4.3		point ≥ 248 F; and < 25 gal/yr. evaporative losses Brazing, soldering, or welding equipment	6.10	1
Equipment used exclusively for extruding or compression molding of rubber or plastics, where no plastisizer or blowing agent is used	6.5		Equipment used to compress natural gas	6.11	1
Containers used to store clean produced water	6.6.1	1	Fugitive emissions sources assoc. with exempt equipment	6.12	
Containers ≤100 bbl used to store oil with specific gravity ≥ 0.8762	6.6.2	1	Pits and Ponds as defined in Rule 1020	6.15	
Containers ≤ 100 bbl installed prior to 6/1/89 used to store oil with specific gravity ≥ 0.8762	6.6.3		On-site roadmix manufacturing and the application of roadmix as a road base material	6.17	
Containers with a capacity ≤ 250 gallons used to store organic material where the actual storage temperature <150 F	6.6.4	1	Emissions less than 2 lb/day from units not included above	6.19	1
Containers used to store unheated organic material with an initial boiling point ≥ 302 F	6.6.5	1	Venting PUC quality natural gas from for sole purpose of pipeline and compressor repair and or maintenance	7.2	
Containers used to store fuel oils or non-air-blown asphalt with specific gravity ≥0.9042	6.6.6		Non-structural repairs & maintenance to permitted equipment	7.3	
Containers used to store petroleum distillates used as motor fuel with specific gravity ≥ 0.8251	6.6.7		Detonation of explosives ≤ 100 lb/day and 1,000 lb/year	7.4	

No insignificant activities (Check this box if no equipment in the above categories exist at your facility.)

Attachment C Current Permit to Operate





Permit to Operate

FACILITY: N-4940 EXPIRATION DATE: 03/31/2016

LEGAL OWNER OR OPERATOR:

MODESTO IRRIGATION DISTRICT

MAILING ADDRESS:

PO BOX 4060

MODESTO, CA 95352

FACILITY LOCATION:

1015 S STOCKTON AVE

RIPON, CA 95366

FACILITY DESCRIPTION:

POWER GENERATION FACILITY

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

David Warner
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: N-4940-0-1 **EXPIRATION DATE:** 03/31/2016

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 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
- 5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
- 6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District 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

- 10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
- 11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
- 12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
- 13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
- 14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
- 15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
- 16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
- 17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
- 18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
- 19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
- 20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
- 21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
- 22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight countics in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

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

- 23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
- 24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
- 25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
- 26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
- 27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
- 28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
- 29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
- Outdoor handling, storage and transport of any bulk material which cmits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
- 31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
- 32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
- 33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
- 34. Any unpaved vchicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
- 35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

- 36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
- 37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
- 38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
- 39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
- 41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
- 42. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
- 43. On November 30, 2011, 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

San Joaquin Valley Air Pollution Control District

EXPIRATION DATE: 03/31/2016 PERMIT UNIT: N-4940-1-3

EQUIPMENT DESCRIPTION:

47.5 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A 500 MMBTU/HR GENERAL ELECTRIC, MODEL LM6000 SPRINT, NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH A WATER SPRAY PREMIXED COMBUSTION SYSTEM, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH AMMONIA INJECTION AND AN OXIDATION CATALYST

PERMIT UNIT REQUIREMENTS

- All equipment shall be maintained in proper operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
- A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve the gas turbine engine. Exhaust ducting shall be equipped with a fresh air inlet blower to be used to lower the exhaust temperature prior to the inlet of the SCR system catalyst. [District Rule 2201] Federally Enforceable Through Title V Permit
- The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators or equivalent technology sufficient to limit the visible emissions from the lube oil vents to not exceed 5% opacity, except for a period not exceeding three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
- The turbine shall be equipped with a continuous monitoring system to measure and record hours of operation, mass ratio of water-to-fuel injected and fuel consumption. [District Rules 2201 and 4703, 6.2; and 40 CFR 60.334 (a)] Federally Enforceable Through Title V Permit
- The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NOx, CO, and O2. The CEM shall meet the requirements of 40 CFR parts 60 and 75 and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rules 1080, 2201 and 4703, 6.2.1; and 40 CFR 60.334 (b)(d)] Federally Enforceable Through Title V Permit
- The permittee shall monitor and record the fuel flow rate, NOx emission rate, CO emission rate, ammonia injection rate, exhaust temperature both prior to and after the SCR system, exhaust oxygen content and exhaust flow rate. [District Rules 2201 and 4703, 6.2] Federally Enforceable Through Title V Permit
- The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
- Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
- The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit

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

Facility Name: MODESTO IRRIGATION DISTRICT Location: 1015 S STOO N-4940-1-3 : Nov 3 2011 3.22PM - BRARG 1015 S STOCKTON AVE, RIPON, CA 95366

- 10. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4 and 40 CFR 60.334 (b)(2)] Federally Enforceable Through Title V Permit
- 11. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
- 12. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of the continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit
- 13. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080 and 40 CFR 60.334 (b)(1)] Federally Enforceable Through Title V Permit
- 14. The turbine shall be fired only on natural gas with a sulfur content (as S) not exceeding 1.0 grain per 100 standard cubic feet. [District Rules 2201 and 4801; and 40 CFR 60.333 (b)] Federally Enforceable Through Title V Permit
- 15. The NOx (as NO2) emissions during each start-up event and each shutdown event shall not exceed 20.0 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. The CO emissions during each each start-up event and each shutdown event shall not exceed 20.0 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operations, and the unit meets the lb/hr and ppmvd emission limits specified within this permit. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. Start-up and shutdown period emissions shall be counted toward all applicable emission limits (lb/day and lb/year). [District Rules 2201 and 4703, 3.26, 3.29 and 5.3] Federally Enforceable Through Title V Permit
- 18. Duration of each start-up or each shutdown event shall not exceed two hours. [District Rule 4703, 5.3.1.1] Federally Enforceable Through Title V Permit
- 19. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703, 5.3.2] Federally Enforceable Through Title V Permit
- 20. The NOx (as NO2) emissions from this unit, except during start-up and shutdown events, shall not exceed either of the following: 4.53 lb/hr or 2.5 ppmvd @ 15% O2. The emission concentration limit is based on a three-hour rolling average. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
- 21. The CO emissions from this unit, except during start-up and shutdown events, shall not exceed either of the following: 6.62 lb/hr or 6.0 ppmvd @ 15% O2. The emission concentration limit is based on a three-hour rolling average. [District Rules 2201 and 4703, 5.2] Federally Enforceable Through Title V Permit
- 22. The VOC emissions from this unit shall not exceed either of the following: 1.26 lb/hr or 2.0 ppmvd @ 15% O2. The emission concentration limit is based on a three-hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
- 23. The SOx emissions shall not exceed 1.4 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. The PM10 emissions shall not exceed 3.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

- 25. The ammonia slip emissions shall not exceed either of the following: 6.71 lb/hr or 10.0 ppmvd @ 15% O2. The emission concentration limit is based on a 24-hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
- 26. Each three hour rolling average will be compiled from the three most recent one hour periods. Each one hour period shall commence on the hour. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. The twenty-four hour average will be calculated starting and ending at twelve-midnight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 27. The daily emissions from this unit shall not exceed any of the following: NOx (as NO2) 155.1 lb/day; VOC 30.2 lb/day; CO - 158.9 lb/day; PM10 - 72.0 lb/day; or SOx (as SO2) - 34.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 28. The annual emissions from this unit shall not exceed any of the following: NOx (as NO2) 44,505 lb/year; VOC -11,038 lb/year; CO - 57,991 lb/year, PM10 - 26,280 lb/year; or SOx - 12,483 lb/year. All annual emission limits are based on 12 consecutive month rolling emissions totals. [District Rule 2201] Federally Enforceable Through Title V Permit
- 29. Daily emissions shall be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each calendar month in a twelve consecutive month rolling emissions total shall commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions totals used to determine compliance with annual emission limits shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
- 30. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: (ppmvd @ 15% O2) = $((a - (b \times c/1,000,000)) \times (b \times c/1,000,000))$ $(1,000,000 / b)) \times d$, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.) Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rule 4102]
- 31. Source testing to measure the NOx, VOC, CO and ammonia slip emissions (ppmvd @ 15% O2 and lb/hr) and PM10 emissions (lb/hr) shall be conducted at least once every twelve months. [District Rules 2201 and 4703, 6.3.1] Federally Enforceable Through Title V Permit
- 32. Source testing to measure the CO emissions during start-up periods shall be conducted at least once every seven years thereafter. [District Rule 2201] Federally Enforceable Through Title V Permit
- 33. Source testing to measure the NOx emissions during start-up periods shall be conducted at least once every seven years. [District Rule 2201] Federally Enforceable Through Title V Permit
- 34. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
- 35. Source testing shall be witnessed or authorized by District personnel and samples shall be collected by a California Air Resources Board (CARB) certified testing laboratory or a CARB certified source testing firm. [District Rule 1081] Federally Enforceable Through Title V Permit
- 36. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

Facility Name: MODESTO IRRIGATION DISTRICT Location: 1015 S STOCKTON AVE, RIPON, CA 95366 N-4940-1-3: Nov 3 2011 3 22PM - BRARG

- 37. NOx emissions (referenced as NO2) shall be determined using EPA method 7E, EPA method 20 or CARB method 20. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 2201 and 4703, 5.1 & 6.4.1; and 40 CFR 60.335 (a) & (b)] Federally Enforceable Through Title V Permit
- 38. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081, 2201 and 4703, 6.4.2] Federally Enforceable Through Title V Permit
- 39. VOC emissions (referenced as methane) shall be determined using EPA method 18 or EPA method 25. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 40. PM10 emissions shall be determined using EPA methods 201 and 202, EPA methods 201A and 202, CARB method 501 in conjunction with CARB method 5, or EPA method 5 and CARB method 5. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 41. Ammonia emissions shall be determined using BAAQMD method ST-1B. [District Rules 1081] Federally Enforceable Through Title V Permit
- 42. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A or EPA method 20. [District Rules 1081, 2201 and 4703, 6.4.3] Federally Enforceable Through Title V Permit
- 43. The HHV and LHV of the fuel combusted shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5, and 40 CFR 60.332 (b)] Federally Enforceable Through Title V Permit
- 44. The owner or operator shall demonstrate maximum total sulfur content of the fuel by maintaining gas quality characteristics in a current, valid purchase contract, a tarrif sheet or transportation contract for the fuel. [40 CFR 60.334 (h)(3)] Federally Enforceable Through Title V Permit
- 45. EPA approved alternative source testing methods will be allowed, upon District approval, provided it does not result in a relaxation of emission limitations. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001 and 4703, 6.4] Federally Enforceable Through Title V Permit
- 46. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
- 47. The permittee shall maintain a daily stationary gas turbine system operating log that includes the actual local startup and stop time, length and reason for reduced load periods, total hours of operation and the type and quantity of fuel used. [District Rule 4703, 6.2.6] Federally Enforceable Through Title V Permit
- 48. The operator performing start-up or shutdown of this unit shall keep records of the duration of start-up or shutdown. [District Rule 4703, 6.2.8] Federally Enforceable Through Title V Permit
- 49. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period which a continuous monitoring system or device was inoperative, and maintenance of any continuous emission monitoring system or device. [District Rule 2201] Federally Enforceable Through Title V Permit
- 50. All records required to be maintained by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit
- 51. The owners and operators of each affected source and each affected unit at the source shall: (i) Operate the unit in compliance with a complete Acid Rain permit application or a superceding Acid Rain permit issued by the permitting authority; and (ii) Have an Acid Rain permit. [40 CFR 72] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: MODESTO IRRIGATION DISTRICT Location: 1015 S STOCKTON AVE, RIPON, CA 95366 N-4940-1-3: Nov 3 2011 3.22PM - BRARG

- 52. The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75. [40 CFR 75] Federally Enforceable Through Title V Permit
- 53. The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR 75] Federally Enforceable Through Title V Permit
- 54. The owners and operators of each source and each affected unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR 73] Federally Enforceable Through Title V Permit
- 55. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 77] Federally Enforceable Through Title V Permit
- 56. An affected unit shall be subject to the sulfur dioxide requirements starting on the later of January 1, 2000, or the deadline for monitoring certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR 72, 40 CFR 75] Federally Enforceable Through Title V Permit
- 57. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR 72] Federally Enforceable Through Title V Permit
- 58. An allowance shall not be deducted in order to comply with the requirements under 40 CFR part 73, prior to the calendar year for which the allowance was allocated. [40 CFR 73] Federally Enforceable Through Title V Permit
- 59. An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72] Federally Enforceable Through Title V Permit
- 60. An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72] Federally Enforceable Through Title V Permit
- 61. The owners and operators of each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides. [40 CFR 72] Federally Enforceable Through Title V Permit
- 62. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77. [40 CFR 77] Federally Enforceable Through Title V Permit
- 63. The owners and operators of an affected unit that has excess emissions in any calendar year shall: (i) Pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77. [40 CFR 77] Federally Enforceable Through Title V Permit
- 64. The owners and operators of the each affected unit at the source shall keep on site the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superceded because of the submission of a new certificate of representation changing the designated representative. [40 CFR 72] Federally Enforceable Through Title V Permit

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

- 65. The owners and operators of each affected unit at the source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program. [40 CFR 75] Federally Enforceable Through Title V Permit
- 66. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 75 Subpart I. [40 CFR 75] Federally Enforceable Through Title V Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-4940-2-3

EXPIRATION DATE: 03/31/2016

EQUIPMENT DESCRIPTION:

47.5 MW NOMINALLY RATED SIMPLE-CYCLE PEAK-DEMAND POWER GENERATING SYSTEM CONSISTING OF A 500 MMBTU/HR GENERAL ELECTRIC, MODEL LM6000 SPRINT, NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH A WATER SPRAY PREMIXED COMBUSTION SYSTEM, SERVED BY A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM WITH AMMONIA INJECTION AND AN OXIDATION CATALYST

PERMIT UNIT REQUIREMENTS

- 1. All equipment shall be maintained in proper operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
- 2. A selective catalytic reduction (SCR) system and an oxidation catalyst shall serve the gas turbine engine. Exhaust ducting shall be equipped with a fresh air inlet blower to be used to lower the exhaust temperature prior to the inlet of the SCR system catalyst. [District Rule 2201] Federally Enforceable Through Title V Permit
- 3. The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators or equivalent technology sufficient to limit the visible emissions from the lube oil vents to not exceed 5% opacity, except for a period not exceeding three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
- 4. The turbine shall be equipped with a continuous monitoring system to measure and record hours of operation, mass ratio of water-to-fuel injected and fuel consumption. [District Rules 2201 and 4703, 6.2; and 40 CFR 60.334 (a)] Federally Enforceable Through Title V Permit
- 5. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NOx, CO, and O2. The CEM shall meet the requirements of 40 CFR parts 60 and 75 and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. [District Rules 1080, 2201 and 4703, 6.2.1; and 40 CFR 60.334 (b)(d)] Federally Enforceable Through Title V Permit
- 6. The permittee shall monitor and record the fuel flow rate, NOx emission rate, CO emission rate, ammonia injection rate, exhaust temperature both prior to and after the SCR system, exhaust oxygen content and exhaust flow rate. [District Rules 220] and 4703, 6.2] Federally Enforceable Through Title V Permit
- 7. The facility shall install and maintain equipment, facilities, and systems compatible with the District's CEM data polling software system and shall make CEM data available to the District's automated polling system on a daily basis. [District Rule 1080] Federally Enforceable Through Title V Permit
- 8. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
- 9. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NOx, CO, and O2 analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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Facility Name: MODESTO IRRIGATION DISTRICT Location: 1015 S STOCKTON AVE,RIPON, CA 95366 N.4949-2-3. Nov 3 2011 3 22PM - BRARG

- 10. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA. [District Rule 1080, 6.4 and 40 CFR 60.334 (b)(2)] Federally Enforceable Through Title V Permit
- 11. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
- 12. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of the continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit
- 13. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.11, at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080 and 40 CFR 60.334 (b)(1)] Federally Enforceable Through Title V Permit
- 14. The turbine shall be fired only on natural gas with a sulfur content (as S) not exceeding 1.0 grain per 100 standard cubic feet. [District Rules 2201 and 4801; and 40 CFR 60.333 (b)] Federally Enforceable Through Title V Permit
- 15. The NOx (as NO2) emissions during each start-up event and each shutdown event shall not exceed 20.0 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
- 16. The CO emissions during each each start-up event and each shutdown event shall not exceed 20.0 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
- 17. Startup shall be defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operations, and the unit meets the lb/hr and ppmvd emission limits specified within this permit. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. Start-up and shutdown period emissions shall be counted toward all applicable emission limits (lb/day and lb/year). [District Rules 2201 and 4703, 3.26, 3.29 and 5.3] Federally Enforceable Through Title V Permit
- 18. Duration of each start-up or each shutdown event shall not exceed two hours. [District Rule 4703, 5.3.1.1] Federally Enforceable Through Title V Permit
- 19. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during startup and shutdown. [District Rule 4703, 5.3.2] Federally Enforceable Through Title V Permit
- 20. The NOx (as NO2) emissions from this unit, except during start-up and shutdown events, shall not exceed either of the following: 4.53 lb/hr or 2.5 ppmvd @ 15% O2. The emission concentration limit is based on a three-hour rolling average. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
- 21. The CO emissions from this unit, except during start-up and shutdown events, shall not exceed either of the following: 6.62 lb/hr or 6.0 ppmvd @ 15% O2. The emission concentration limit is based on a three-hour rolling average. [District Rules 2201 and 4703, 5.2] Federally Enforceable Through Title V Permit
- 22. The VOC emissions from this unit shall not exceed either of the following: 1.26 lb/hr or 2.0 ppmvd @ 15% O2. The emission concentration limit is based on a three-hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
- 23. The SOx emissions shall not exceed 1.4 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
- 24. The PM10 emissions shall not exceed 3.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit

- 25. The ammonia slip emissions shall not exceed either of the following: 6.71 lb/hr or 10.0 ppmvd @ 15% O2. The emission concentration limit is based on a 24-hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
- 26. Each three hour rolling average will be compiled from the three most recent one hour periods. Each one hour period shall commence on the hour. Each one hour period in a twenty-four hour average for ammonia slip will commence on the hour. The twenty-four hour average will be calculated starting and ending at twelve-midnight. [District Rule 2201] Federally Enforceable Through Title V Permit
- 27. The daily emissions from this unit shall not exceed any of the following: NOx (as NO2) 155.1 lb/day; VOC 30.2 lb/day; CO 158.9 lb/day; PM10 72.0 lb/day; or SOx (as SO2) 34.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
- 28. The annual emissions from this unit shall not exceed any of the following: NOx (as NO2) 44,505 lb/year; VOC 11,038 lb/year; CO 57,991 lb/year, PM10 26,280 lb/year; or SOx 12,483 lb/year. All annual emission limits are based on 12 consecutive month rolling emissions totals. [District Rule 2201] Federally Enforceable Through Title V Permit
- 29. Daily emissions shall be compiled for a twenty-four hour period starting and ending at twelve-midnight. Each calendar month in a twelve consecutive month rolling emissions total shall commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions totals used to determine compliance with annual emission limits shall be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
- 30. Compliance with the ammonia emission limits shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation: (ppmvd @ 15% O2) = ((a (b x c/1,000,000)) x (1,000,000 / b)) x d, where a = ammonia injection rate (lb/hr) / (17 lb/lb mol), b = dry exhaust flow rate (lb/hr) / (29 lb/lb mol), c = change in measured NOx concentration ppmvd @ 15% O2 across the catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip; 2.) utilize another District-approved calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% O2. If this option is chosen, the permittee shall submit a detailed calculation protocol for District approval at least 60 days prior to commencement of operation; 3.) Alternatively, the permittee may utilize a continuous in-stack ammonia monitor to verify compliance with the ammonia emissions limit. If this option is chosen, the permittee shall submit a monitoring plan for District approval at least 60 days prior to commencement of operation. [District Rule 4102]
- 31. Source testing to measure the NOx, VOC, CO and ammonia slip emissions (ppmvd @ 15% O2 and lb/hr) and PM10 emissions (lb/hr) shall be conducted at least once every twelve months. [District Rules 2201 and 4703, 6.3.1] Federally Enforceable Through Title V Permit
- 32. Source testing to measure the CO emissions during start-up periods shall be conducted at least once every seven years thereafter. [District Rule 2201] Federally Enforceable Through Title V Permit
- 33. Source testing to measure the NOx emissions during start-up periods shall be conducted at least once every seven years. [District Rule 2201] Federally Enforceable Through Title V Permit
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- 36. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

- 37. NOx emissions (referenced as NO2) shall be determined using EPA method 7E, EPA method 20 or CARB method 20. EPA approved alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 2201 and 4703, 5.1 & 6.4.1; and 40 CFR 60.335 (a) & (b)] Federally Enforceable Through Title V Permit
- 38. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081, 2201 and 4703, 6.4.2] Federally Enforceable Through Title V Permit
- 39. VOC emissions (referenced as methane) shall be determined using EPA method 18 or EPA method 25. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 40. PM10 emissions shall be determined using EPA methods 201 and 202, EPA methods 201A and 202, CARB method 501 in conjunction with CARB method 5, or EPA method 5 and CARB method 5. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
- 41. Ammonia emissions shall be determined using BAAQMD method ST-1B. [District Rules 1081] Federally Enforceable Through Title V Permit
- 42. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A or EPA method 20. [District Rules 1081, 2201 and 4703, 6.4.3] Federally Enforceable Through Title V Permit
- 43. The FIHV and LHV of the fuel combusted shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [District Rule 4703, 6.4.5, and 40 CFR 60.332 (b)] Federally Enforceable Through Title V Permit
- 44. The owner or operator shall demonstrate maximum total sulfur content of the fuel by maintaining gas quality characteristics in a current, valid purchase contract, a tarrif sheet or transportation contract for the fuel. [40 CFR 60.334 (h)(3)] Federally Enforceable Through Title V Permit
- 45. EPA approved alternative source testing methods will be allowed, upon District approval, provided it does not result in a relaxation of emission limitations. The request to utilize EPA approved alternative source testing methods must be submitted in writing and written approval received from the District prior to the submission of the source test plan. [District Rules 1081, 4001 and 4703, 6.4] Federally Enforceable Through Title V Permit
- 46. The permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
- 47. The permittee shall maintain a daily stationary gas turbine system operating log that includes the actual local startup and stop time, length and reason for reduced load periods, total hours of operation and the type and quantity of fuel used. [District Rule 4703, 6.2.6] Federally Enforceable Through Title V Permit
- 48. The operator performing start-up or shutdown of this unit shall keep records of the duration of start-up or shutdown. [District Rule 4703, 6.2.8] Federally Enforceable Through Title V Permit
- 49. The permittee shall maintain the following records: date and time, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period which a continuous monitoring system or device was inoperative, and maintenance of any continuous emission monitoring system or device. [District Rule 2201] Federally Enforceable Through Title V Permit
- 50. All records required to be maintained by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit
- 51. The owners and operators of each affected source and each affected unit at the source shall: (i) Operate the unit in compliance with a complete Acid Rain permit application or a superceding Acid Rain permit issued by the permitting authority; and (ii) Have an Acid Rain permit. [40 CFR 72] Federally Enforceable Through Title V Permit PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: MODESTO IRRIGATION DISTRICT Location: 1015 S STOCKTON AVE.RIPON, CA 95366 N-4940-2-3 · Nov 3 2011 3:22PM - BRARG

- 52. The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75. [40 CFR 75] Federally Enforceable Through Title V Permit
- 53. The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR 75] Federally Enforceable Through Title V Permit
- 54. The owners and operators of each source and each affected unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR 73] Federally Enforceable Through Title V Permit
- 55. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40 CFR 77] Federally Enforceable Through Title V Permit
- 56. An affected unit shall be subject to the sulfur dioxide requirements starting on the later of January 1, 2000, or the deadline for monitoring certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR 72, 40 CFR 75] Federally Enforceable Through Title V Permit
- 57. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR 72] Federally Enforceable Through Title V Permit
- 58. An allowance shall not be deducted in order to comply with the requirements under 40 CFR part 73, prior to the calendar year for which the allowance was allocated. [40 CFR 73] Federally Enforceable Through Title V Permit
- 59. An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR 72] Federally Enforceable Through Title V Permit
- 60. An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR 72] Federally Enforceable Through Title V Permit
- 61. The owners and operators of each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides. [40 CFR 72] Federally Enforceable Through Title V Permit
- 62. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77. [40 CFR 77] Federally Enforceable Through Title V Permit
- 63. The owners and operators of an affected unit that has excess emissions in any calendar year shall: (i) Pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77. [40 CFR 77] Federally Enforceable Through Title V Permit
- 64. The owners and operators of the each affected unit at the source shall keep on site the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superceded because of the submission of a new certificate of representation changing the designated representative. [40 CFR 72] Federally Enforceable Through Title V Permit

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

- 65. The owners and operators of each affected unit at the source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program. [40 CFR 75] Federally Enforceable Through Title V Permit
- 66. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR 75 Subpart I. [40 CFR 75] Federally Enforceable Through Title V Permit

Attachment D

District's Response to the Comments Received from the Facility

District's Response to the Comments Received from the Facility on August 15, 2011

Comment #1 - MID requests Gregory E. Salyer be removed as Responsible Official for the Ripon Generation Station (N-4940). Glenn Mount replaced Greg as Responsible Official as reflected in the TVFORM-010 submitted in May 2007. The contact information for Glenn Mount is listed below.

Glenn Mount Modesto Irrigation District P.O. Box 4060 Modesto, CA 95352 (209) 526-7616

District's Response to Comment #1:

The District has changed the Responsible Official for this facility to Glenn Mount.

Comment #2 - Condition #16 in permits N-4940-1-3 and N-4940-2-3 -MID requests condition #16 read as follows: 'The NOx (as NO2) emissions during each start-up event or each shutdown event shall not exceed 20.0 /b/hr'

District's Response to Comment #2:

The district can't modify NSR conditions within an initial Title V project because an ATC application is required for NSR modifications.

Comment #3 - Condition #17 in permits N-4940-1-3 and N-4940-2-3 -MID requests condition #17 read as follows: 'The CO emissions during each start-up event or each shutdown event shall not exceed 20.0 /b/hr'

District's Response to Comment #3:

The district can't modify NSR conditions within an initial Title V project because an ATC application is required for NSR modifications.

Comment #4 - Condition #18 in permits N-4940-1-3 and N-4940-2-3 define shutdown as 'the period of time during which a unit is taken from an operational to a non-operational status as the fuel supply to the unit is completely turned off. MID requests shutdown be defined as 'the period beginning with the initiation of the turbine shutdown sequence and ending with the cessation of the firing of the turbine'. This will maintain consistency with the shutdown definition used in the Title V permits for the other MID generating plants.

District's Response to Comment #4:

The change cannot be granted as proposed as 'shutdown' definition is based on current version of District Rule 4703.

Comment #5 - Condition #19 in permits N-4940-1-3 and N-4940-2-3 -MID requests condition #19 read as follows: 'Duration of each start-up event or each shutdown event shall not exceed two hours'

District's Response to Comment #5:

The district has modified this condition as proposed by the facility.

Comment #6 -, Condition #21 in permits N-4940-1-3 and N-4940-2-3 are regulated by 40 CFR subpart KKKK. Subpart KKKK applies to stationary combustion turbines with a heat input greater than 10 MMBtu/hr which began construction, modification, or reconstruction after February 18, 2005. The Ripon Generation Station began construction in July of 2004 and therefore subject to Subpart GG and not Subpart KKKK. Subpart GG does not include a 30-day rolling average limit and the Ripon plant is already subject to a more stringent 3-hour rolling average. MID requests condition #21 be removed or changed to reflect the more stringent 3-hour rolling average from permits N-4940-1-3 and N-4940-2-3.

District's Response to Comment #6:-

The district has removed this condition as these permit units are not subject to 40 CFR subpart KKKK based on the information provided by the facility that construction commenced before February 18, 2005.

Comment #7 - Conditions #2, #5, #6, #11, #12, #14, #15, #21, #22, #33, #39, #46, and #52 in permits N-4940-1-3 and N-4940-2-3 all reference 40 CFR Subpart KKKK. The Ripon Generation Station does not fall under Subpart KKKK because it commenced construction in July of 2004. These conditions should be based on other rules. MID requests the removal of the Subpart KKKK reference and include the appropriate and applicable rules to the above mentioned conditions in permits N-4940-1-3 and N-4940-2-3.

District's Response to Comment #7:

The district has removed these conditions as these permit units are not subject to 40 CFR subpart KKKK based on the information provided by the facility that construction commenced before February 18, 2005. Conditions 4, 5, 10, 13, 14, 37, 43, 44 and 45 on the proposed permits will ensure compliance with the requirements of 40 CFR 60 Subpart GG.

Comment #8 - Condition #34 in permits N-4940-1-3 and N-4940-2-3 should read as follows: 'source testing to measure the CO emissions during start up...'

District's Response to Comment #8:

The district has modified this condition as proposed by the facility based on permits N-4940-1-2 and N-4940-2-2.

Comment #9 - Condition #35 in permit N-4940-1-3 and N-4940-2-3 should read as follows: 'source testing to measure the NOx emissions during start up...'

District's Response to Comment #9:

The district has modified this condition as proposed by the facility based on permits N-4940-1-2 and N-4940-2-2.

Comment #10 - Condition #42 in permits N-4940-1-3 and N-4940-2-3 allows the use of EPA methods 201 A and 202 to determine PM10 emissions. The Ripon Generation Station is a high temp source with stack temperatures exceeding 500°F. MID requested and received approval to determine PM10 emissions on high temp sources using EPA method 5 or CARB method 5 in lieu of EPA method 201 A. MID requests the District add EPA method 5 and CARB method 5 as allowable methods to be used in lieu of EPA method 201A to condition #42 in permits N- 4940-1-3 and N-4940-2-3. Please see the attached request and subsequent approval letter received from Tom Busenbark of the SJVAPCD.

District's Response to Comment #10:

The district can't modify NSR conditions within an initial Title V project and any modification to this condition (now condition #40) requires an ATC application. Please submit an ATC application to change source testing method for PM10 emissions.

Comment #11 - Condition #46 in permits N-4940-1-3 and N-4940-2-3 has a typographical error. Condition #46 should read as follows: '...by maintaining gas quality characteristics...'

District's Response to Comment #11:

The district has modified this condition as proposed by the facility.

Comment #12 - Conditions #47 and #48 in permits N-4940-1-3 and N-4940-2-3 relate to HAP emissions pursuant to 40 CFR 63 Subpart YYYY. 40 CFR Subpart YYYY applies only to major sources of HAP emissions. As stated in the District Title V and therefore not subject to 40 CFR 63 Subpart YYYY. MID requests conditions #47 & #48 be removed from permits N-4940-1-3 and N-4940-2-3.

District's Response to Comment #12:

The district has removed these conditions from the permits N-4940-1-3 and N-4940-2-3.

Comment #13 - Condition #50 in permits N-4940-1-3 and N-4940-2-3 are identical to condition #1 in permit N-4940-0-1. MID requests the redundant conditions be removed.

District's Response to Comment #13:

The district has removed this redundant condition from permit N-4940-1-3 and N-4940-2-3.

Comment #14 - Condition #51 in permits N-4940-1-3 and N-4940-2-3 are identical to condition #2 in permit N-4940-0-1. MID requests the redundant conditions be removed.

District's Response to Comment #14:

The district has removed this redundant condition from permit N-4940-1-3 and N-4940-2-3.