

July 12, 2021

Mr. Michael A. Tehada
Turlock Irrigation District
PO Box 949
Turlock, CA 95381

Re: Notice of Final Action - Title V Permit Renewal
Facility Number: N-2246
Project Number: N-1201263

Dear Mr. Tehada:

The District has issued the Final Renewed Title V Permit for Turlock Irrigation District (see enclosure). The preliminary decision for this project was made on May 14, 2021.

The public notice for issuance of the Final Title V Permit will be posted on the District's website (www.valleyair.org).

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

Sincerely,



Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Laura Yannayon, EPA (w/enclosure) via EPS

Samir Sheikh
Executive Director/Air Pollution Control Officer

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

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

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

Permit to Operate

FACILITY: N-2246

EXPIRATION DATE: 09/30/2025

LEGAL OWNER OR OPERATOR:

TURLOCK IRRIGATION DISTRICT

MAILING ADDRESS:

PO BOX 949
TURLOCK, CA 95381

FACILITY LOCATION:

325 S WASHINGTON RD
TURLOCK, CA 95380

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.

Samir Sheikh
Executive Director / APCO

Brian Clements
Director of Permit Services

San Joaquin Valley

Air Pollution Control District

FACILITY: N-2246-0-4

EXPIRATION DATE: 09/30/2025

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, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: TURLOCK IRRIGATION DISTRICT
Location: 325 S WASHINGTON RD, TURLOCK, CA 95380
N-2246-0-4 : Jun 30 2021 10:00AM -- BRARG

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. Facilities N-2246 and N-7172 are included in the same stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin November 1 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-2246-1-11

EXPIRATION DATE: 09/30/2025

EQUIPMENT DESCRIPTION:

TURBINE/GENERATOR SET #1, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED

PERMIT UNIT REQUIREMENTS

1. This unit is subject to the requirements of 40 CFR Part 60, Subpart GG: Standards of Performance for Stationary Gas Turbines. [District Rule 4001] Federally Enforceable Through Title V Permit
2. The owner shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier. [District Rule 4703] Federally Enforceable Through Title V Permit
3. This unit shall be fired on only natural gas or fuel oil #2. The primary fuel shall be natural gas; fuel oil #2 shall be used as a backup fuel only in the event of a natural gas shortage. [District Rule 2201 and 40 CFR 60.331(r)] Federally Enforceable Through Title V Permit
4. This unit shall be fired only on natural gas with a sulfur content not exceeding 1.0 grain of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas. If this is fired on PUC-regulated natural gas, compliance with this sulfur content limit may be demonstrated with fuel receipts. [District Rules 2201 and 4801; Stanislaus County Rule 407; and 40 CFR 60.333(b) and 334(h)(3)] Federally Enforceable Through Title V Permit
5. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until compliance is demonstrated for eight consecutive weeks. [40 CFR 60.334(h)] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall be less than 0.05 percent by weight. [District Rules 4703 and 4801; Stanislaus County Rule 407; and 40 CFR 60.333(b)] Federally Enforceable Through Title V Permit
7. The sulfur content of the fuel oil shall be determined each time fuel is transferred into the on-site storage tank. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit
8. The operation of this unit shall not exceed 200 hours during any calendar year. Operations during California Independent System Operator (ISO) declared or TID declared emergencies shall not count against the unit's 200 hr/yr operating limit, provided the unit is located in the local area transmission system of the emergency. Operation during a state of emergency declared by proclamation of the Governor also shall not count towards this 200 hr/yr operating limit when the unit is located in the specific geographic location identified in the proclamation. [District Rule 4703] Federally Enforceable Through Title V Permit
9. Total operation of this unit, excluding operation during a state of emergency declared by proclamation of the Governor and when the unit is located in the specific geographic location identified in the proclamation, shall not exceed 877 hours during any calendar year. [District Rule 4703] Federally Enforceable Through Title V Permit
10. No later than April 1 each year, the owner shall pay a fee to the District, calculated in accordance with Section 5.1.3.3.2 of Rule 4703, for operations during an ISO-declared or TID - declared emergency, provided these operating hours are not being counted towards the 200 hr/yr operating limit. [District Rule 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. When firing on natural gas, NO_x (referenced as NO₂) emissions shall not exceed 25.0 ppmvd @ 15% O₂, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703; and 40 CFR 60.332(b) and 334(j)] Federally Enforceable Through Title V Permit
12. When firing on fuel oil, the NO_x (referenced as NO₂) emissions shall not exceed 42.0 ppmvd @ 15% O₂ and 51 lb/hr, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
13. The NO_x emission concentration shall not exceed 42 ppmvd @ 15% O₂ except during transitional operation period, and the NO_x emission rate shall not exceed 51 pounds in any one hour. [District Rules 2201 and 4703; and 40 CFR 60.332(b) and 334(j)] Federally Enforceable Through Title V Permit
14. The combined NO_x emissions from permit units N-2246-1 and N-2246-2 shall not exceed 1,020 lb/day and shall not exceed 25,551 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
15. When firing on either natural gas or fuel oil, CO emissions shall not exceed 200 ppmvd @ 15% O₂, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
16. The cumulative annual CO emissions from permit units N-2246-1 and N-2246-2 shall be less than 200,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
17. When firing on either natural gas or fuel oil, VOC emissions shall not exceed 15.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
19. When firing on natural gas, PM₁₀ emissions shall not exceed 8.60 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
20. When firing on fuel oil, PM₁₀ emissions shall not exceed 20.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The combined PM₁₀ emissions from permit units N-2246-1 and N-2246-2 shall not exceed 150 pounds during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The annual PM₁₀ emissions shall not exceed 7,016 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
23. When firing on natural gas, SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
24. When firing on fuel oil, SO_x emissions shall not exceed 16.37 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
25. In the event of a natural gas shortage, SO_x emissions from permit units N-2246-1 and N-2246-2 shall not exceed 5,950 pounds during any one month. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Source testing to demonstrate ongoing compliance with the NO_x and CO emission limits for natural gas fuel shall be conducted at least once per 24-month period provided that the unit is operated for a total of less than 877 hours per year. Otherwise, the source testing shall be conducted annually. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
27. Source testing to demonstrate compliance with the NO_x and CO emission limits for fuel oil shall be conducted within 30 days of operation on that fuel, unless the unit successfully demonstrated compliance with the NO_x and CO emission limits for fuel oil within the previous 24 months. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

28. 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
29. 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
30. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
31. NO_x emissions (referenced as NO₂) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. [District Rules 1081, 4001, and 4703] Federally Enforceable Through Title V Permit
32. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
33. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A, or EPA method 20. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
34. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation of the turbine, and the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within + 5% and shall be approved by the administrator. [40 CFR 60.334(a) and (g)] Federally Enforceable Through Title V Permit
35. The steam or water to fuel ratio or other parameters that are continuously monitored, shall be monitored during the performance test required under §60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO_x emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. [District Rule 4703; 40 CFR 60.334(g); and 40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
36. The owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO_x emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
37. The continuous monitor of fuel, water, and water-to-fuel ratio system shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the NO_x emission limits at 30, 50, 75, and 100% of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. [District Rule 4703; 40 CFR 60.344(g) and (j)(1), 335(b) and (c); and 40 CFR 60.13(a)] Federally Enforceable Through Title V Permit
38. The owner shall maintain a stationary gas turbine system operating log that includes: the actual local start-up and stop time; length and reason for reduced load periods; total hours of operation on each fuel, and type and quantity of each fuel used. These records shall be updated daily. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

39. The owner shall maintain a log that shows the following: (a). The combined daily NOx emissions from permit units N-2246-1 and N-2246-2; (b). The combined daily PM10 emissions from permit units N-2246-1 and N-2246-2; (c). The cumulative quarterly NOx emissions from permit units N-2246-1 and N-2246-2; (d). The cumulative annual PM10 emissions from this permit unit (N-2246-1). This log shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The owner or operator shall determine compliance with the sulfur content standard using the following methods: ASTM D129, D2622, D4294, D1266, D5453, D1552, D4084, D5504, D6228, or Gas Processors Association Standard 2377. [40 CFR 60.334(h)(1) and 335(b)(10)] Federally Enforceable Through Title V Permit
41. Transitional Operation Period shall be defined as any of the following periods: bypass transition period, primary re-ignition period, reduced load period, start-up or shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
42. Start-up 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 operation. [District Rule 4703] Federally Enforceable Through Title V Permit
43. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703] Federally Enforceable Through Title V Permit
44. The duration of each startup or shutdown shall not exceed two hours. [District Rule 4703] Federally Enforceable Through Title V Permit
45. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during each transitional operation period. [District Rule 4703] Federally Enforceable Through Title V Permit
46. The operator performing start-up or shutdown of a unit shall keep records of the duration of startup or shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
47. The owner or operator shall maintain a stationary gas turbine system operating log, which identifies the date, start time, and end time that the unit was operated pursuant to Section 5.1.3.3 of Rule 4703 (9/20/07); a copy of the ISO or TID emergency declaration for that operation; and a copy of the information used to determine the applicable annual emission fee. [District Rule 4703] Federally Enforceable Through Title V Permit
48. The owner or operator shall maintain a stationary gas turbine system operating log, which identifies the date, start time, and end time that the unit was operated during a state of emergency, when such emergency is declared by proclamation of the Governor and the unit is located in the specific geographic location identified in the proclamation. [District Rule 4703] Federally Enforceable Through Title V Permit
49. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-2246-2-11

EXPIRATION DATE: 09/30/2025

EQUIPMENT DESCRIPTION:

TURBINE/GENERATOR SET #2, 25.8 MW GENERAL ELECTRIC FRAME 5, MODEL PG 5361, NATURAL GAS/FUEL OIL #2 FIRED

PERMIT UNIT REQUIREMENTS

1. This unit is subject to the requirements of 40 CFR Part 60, Subpart GG: Standards of Performance for Stationary Gas Turbines. [District Rule 4001] Federally Enforceable Through Title V Permit
2. The owner shall monitor operational characteristics recommended by the turbine manufacturer or emission control system supplier. [District Rule 4703] Federally Enforceable Through Title V Permit
3. This unit shall be fired on only natural gas or fuel oil #2. The primary fuel shall be natural gas; fuel oil #2 shall be used as a backup fuel only in the event of a natural gas shortage. [District Rule 2201 and 40 CFR 60.331(r)] Federally Enforceable Through Title V Permit
4. This unit shall be fired only on natural gas with a sulfur content not exceeding 1.0 grain of sulfur compounds (as S) per 100 dry standard cubic feet of natural gas. If this is fired on PUC-regulated natural gas, compliance with this sulfur content limit may be demonstrated with fuel receipts. [District Rules 2201 and 4801; Stanislaus County Rule 407; and 40 CFR 60.333(b) and 334(h)(3)] Federally Enforceable Through Title V Permit
5. If this unit is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for eight consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until compliance is demonstrated for eight consecutive weeks. [40 CFR 60.334(h)] Federally Enforceable Through Title V Permit
6. The sulfur content of fuel oil shall be less than 0.05 percent by weight. [District Rules 4703 and 4801; Stanislaus County Rule 407; and 40 CFR 60.333(b)] Federally Enforceable Through Title V Permit
7. The sulfur content of the fuel oil shall be determined each time fuel is transferred into the on-site storage tank. [40 CFR 60.334(i)] Federally Enforceable Through Title V Permit
8. The operation of this unit shall not exceed 200 hours during any calendar year. Operations during California Independent System Operator (ISO) declared or TID declared emergencies shall not count against the unit's 200 hr/yr operating limit, provided the unit is located in the local area transmission system of the emergency. Operation during a state of emergency declared by proclamation of the Governor also shall not count towards this 200 hr/yr operating limit when the unit is located in the specific geographic location identified in the proclamation. [District Rule 4703] Federally Enforceable Through Title V Permit
9. Total operation of this unit, excluding operation during a state of emergency declared by proclamation of the Governor and when the unit is located in the specific geographic location identified in the proclamation, shall not exceed 877 hours during any calendar year. [District Rule 4703] Federally Enforceable Through Title V Permit
10. No later than April 1 each year, the owner shall pay a fee to the District, calculated in accordance with Section 5.1.3.3.2 of Rule 4703, for operations during an ISO-declared or TID - declared emergency, provided these operating hours are not being counted towards the 200 hr/yr operating limit. [District Rule 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. When firing on natural gas, NO_x (referenced as NO₂) emissions shall not exceed 25.0 ppmvd @ 15% O₂, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703; and 40 CFR 60.332(b) and 334(j)] Federally Enforceable Through Title V Permit
12. When firing on fuel oil, the NO_x (referenced as NO₂) emissions shall not exceed 42.0 ppmvd @ 15% O₂ and 51 lb/hr, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
13. The NO_x emission concentration shall not exceed 42 ppmvd @ 15% O₂ except during transitional operation period, and the NO_x emission rate shall not exceed 51 pounds in any one hour. [District Rules 2201 and 4703; and 40 CFR 60.332(b) and 334(j)] Federally Enforceable Through Title V Permit
14. The combined NO_x emissions from permit units N-2246-1 and N-2246-2 shall not exceed 1,020 lb/day and shall not exceed 25,551 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
15. When firing on either natural gas or fuel oil, CO emissions shall not exceed 200 ppmvd @ 15% O₂, except during transitional operation period. Emissions shall be averaged over a three-hour period, using consecutive 15-minute sampling periods. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
16. The cumulative annual CO emissions from permit units N-2246-1 and N-2246-2 shall be less than 200,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
17. When firing on either natural gas or fuel oil, VOC emissions shall not exceed 15.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201, 3.1] Federally Enforceable Through Title V Permit
19. When firing on natural gas, PM₁₀ emissions shall not exceed 8.60 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
20. When firing on fuel oil, PM₁₀ emissions shall not exceed 20.00 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The combined PM₁₀ emissions from permit units N-2246-1 and N-2246-2 shall not exceed 150 pounds during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The annual PM₁₀ emissions shall not exceed 7,016 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
23. When firing on natural gas, SO_x emissions shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
24. When firing on fuel oil, SO_x emissions shall not exceed 16.37 lb/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
25. In the event of a natural gas shortage, SO_x emissions from permit units N-2246-1 and N-2246-2 shall not exceed 5,950 pounds during any one month. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Source testing to demonstrate ongoing compliance with the NO_x and CO emission limits for natural gas fuel shall be conducted at least once per 24-month period provided that the unit is operated for a total of less than 877 hours per year. Otherwise, the source testing shall be conducted annually. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
27. Source testing to demonstrate compliance with the NO_x and CO emission limits for fuel oil shall be conducted within 30 days of operation on that fuel, unless the unit successfully demonstrated compliance with the NO_x and CO emission limits for fuel oil within the previous 24 months. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

28. 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
29. 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
30. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
31. NO_x emissions (referenced as NO₂) shall be determined using EPA Method 7E or EPA Method 20. The test results shall be corrected to ISO standard conditions as defined in 40 CFR Part 60 Subpart GG Section 60.335. [District Rules 1081, 4001, and 4703] Federally Enforceable Through Title V Permit
32. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
33. Oxygen content of the exhaust gas shall be determined by using EPA method 3, EPA method 3A, or EPA method 20. [District Rules 1081 and 4703] Federally Enforceable Through Title V Permit
34. The owner or operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation of the turbine, and the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within + 5% and shall be approved by the administrator. [40 CFR 60.334(a) and (g)] Federally Enforceable Through Title V Permit
35. The steam or water to fuel ratio or other parameters that are continuously monitored, shall be monitored during the performance test required under §60.8, to establish acceptable values and ranges. The owner or operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely. The owner or operator shall develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the NO_x emission controls. The plan shall include the parameter(s) monitored and the acceptable range(s) of the parameter(s) as well as the basis for designating the parameter(s) and acceptable range(s). Any supplemental data such as engineering analyses, design specifications, manufacturer's recommendations and other relevant information shall be included in the monitoring plan. [District Rule 4703; 40 CFR 60.334(g); and 40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
36. The owner or operator shall report periods of excess emissions that are defined as follows: any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with the NO_x emission limit. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, and gas turbine load. [40 CFR 60.334(j)(1)] Federally Enforceable Through Title V Permit
37. The continuous monitor of fuel, water, and water-to-fuel ratio system shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the NO_x emission limits at 30, 50, 75, and 100% of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer. [District Rule 4703; 40 CFR 60.344(g) and (j)(1), 335(b) and (c); and 40 CFR 60.13(a)] Federally Enforceable Through Title V Permit
38. The owner shall maintain a stationary gas turbine system operating log that includes: the actual local start-up and stop time; length and reason for reduced load periods; total hours of operation on each fuel, and type and quantity of each fuel used. These records shall be updated daily. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

39. The owner shall maintain a log that shows the following: (a). The combined daily NOx emissions from permit units N-2246-1 and N-2246-2; (b). The combined daily PM10 emissions from permit units N-2246-1 and N-2246-2; (c). The cumulative quarterly NOx emissions from permit units N-2246-1 and N-2246-2; (d). The cumulative annual PM10 emissions from this permit unit (N-2246-1). This log shall contain each calculated emission quantity as well as each process variable used in the respective calculations. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The owner or operator shall determine compliance with the sulfur content standard using the following methods: ASTM D129, D2622, D4294, D1266, D5453, D1552, D4084, D5504, D6228, or Gas Processors Association Standard 2377. [40 CFR 60.334(h)(1) and 335(b)(10)] Federally Enforceable Through Title V Permit
41. Transitional Operation Period shall be defined as any of the following periods: bypass transition period, primary re-ignition period, reduced load period, start-up or shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
42. Start-up 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 operation. [District Rule 4703] Federally Enforceable Through Title V Permit
43. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703] Federally Enforceable Through Title V Permit
44. The duration of each startup or shutdown shall not exceed two hours. [District Rule 4703] Federally Enforceable Through Title V Permit
45. The emission control systems shall be in operation and emissions shall be minimized insofar as technologically feasible during each transitional operation period. [District Rule 4703] Federally Enforceable Through Title V Permit
46. The operator performing start-up or shutdown of a unit shall keep records of the duration of startup or shutdown. [District Rule 4703] Federally Enforceable Through Title V Permit
47. The owner or operator shall maintain a stationary gas turbine system operating log, which identifies the date, start time, and end time that the unit was operated pursuant to Section 5.1.3.3 of Rule 4703 (9/20/07); a copy of the ISO or TID emergency declaration for that operation; and a copy of the information used to determine the applicable annual emission fee. [District Rule 4703]
48. The owner or operator shall maintain a stationary gas turbine system operating log, which identifies the date, start time, and end time that the unit was operated during a state of emergency, when such emergency is declared by proclamation of the Governor and the unit is located in the specific geographic location identified in the proclamation. [District Rule 4703] Federally Enforceable Through Title V Permit
49. All records shall be retained for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit

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San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-2246-8-4

EXPIRATION DATE: 09/30/2025

EQUIPMENT DESCRIPTION:

170 BHP GENERAL MOTORS MODEL VORTEC PROPANE-FIRED EMERGENCY STANDBY IC ENGINE WITH 3-WAY CATALYST POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall only be fired on LPG or propane. [District Rule 2201] Federally Enforceable Through Title V Permit
3. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with an operational non-selective catalyst installed on the exhaust stack. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use an alternative device, method, or technique in determining monthly fuel consumption provided that the alternative is approved by the APCO. The owner or operator shall maintain these required meters in proper operating condition. The fuel meter shall be calibrated periodically per the recommendations of the manufacturer. [District Rules 2201 and 4702, and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. Emissions from the engine shall not exceed any of the following limits: 2.3 g-NOx/bhp-hr, 0.064 g-PM10/bhp-hr, 15.3 g-CO/bhp-hr, 0.54 g-VOC/bhp-hr, or 0.0164 lb-SOx/MMBtu. [District Rules 2201 and 4801, and Stanislaus County Rule 407] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. The owner or operator has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine's spark plugs shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
16. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
17. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
18. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR Part 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702] Federally Enforceable Through Title V Permit
21. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: N-2246-9-4

EXPIRATION DATE: 09/30/2025

EQUIPMENT DESCRIPTION:

170 BHP GENERAL MOTORS INDUSTRIAL POWERTRAIN PROPANE/LPG-FIRED EMERGENCY STANDBY IC ENGINE WITH A JOHNSON MATTHEY MODEL BANDITO NON-SELECTIVE CATALYTIC REDUCTION (NSCR) SYSTEM POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall have a flapper-type rain cap and shall vent vertically upward. The vertical exhaust flow shall not be impeded by roof overhang or any other obstruction. [District Rule 4102]
3. This engine shall only be fired on LPG or propane. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
6. This engine shall be equipped with either a positive crankcase ventilation system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. NOx emissions from the exhaust of the NSCR system shall not exceed 0.5 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
8. SOx emissions from the exhaust of the NSCR system shall not exceed 0.067 g/bhp-hr. [District Rules 2201 and 4801, and Stanislaus County Rule 407] Federally Enforceable Through Title V Permit
9. PM10 emissions from the exhaust of the NSCR system shall not exceed 0.076 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
10. CO emissions from the exhaust of the NSCR system shall not exceed 1.7 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. VOC emissions from the exhaust of the NSCR system shall not exceed 0.1 g/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rule 4702] Federally Enforceable Through Title V Permit
13. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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14. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
15. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
16. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
17. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702] Federally Enforceable Through Title V Permit
18. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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