

March 2, 2026

Mr. Michael Tehada  
Walnut Energy Center Authority  
PO Box 949  
Turlock, CA 95381

**Re: Notice of Preliminary Decision – Title V Permit Renewal**  
**Facility Number: N-7172**  
**Project Number: N-1244866**

Dear Mr. Tehada:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Walnut Energy Center Authority at 600 S Washington Rd in Turlock, California.

The notice of preliminary decision for this project has been posted on the District's website (<https://valleyair.org/>). After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. 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: EPA Region 9 Air Permitting Manager (w/enclosure) via EPS

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

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4800 Enterprise Way  
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**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation  
Walnut Energy Center Authority  
N-7172**

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**TITLE V PERMIT RENEWAL EVALUATION**  
**POWER GENERATION FACILITY**

**Engineer:** George Avila  
**Date:** March 2, 2026

**Facility Number:** N-7172  
**Facility Name:** Walnut Energy Center Authority  
**Mailing Address:** PO Box 949,  
Turlock, CA 95381

**Contact Name:** Michael A Tehada  
**Phone:** (209) 883-3455

**Responsible Official:** Michael A Tehada  
**Title:** Combustion Turbine Department Manager

**Project # :** N-1244866  
**Deemed Complete:** January 6, 2025

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**I. PROPOSAL**

Walnut Energy Center Authority was issued a renewal Title V permit on December 30, 2020. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit was last renewed.

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

**II. FACILITY LOCATION**

Walnut Energy Center Authority is located at 600 S Washington Road in Turlock, CA.

### **III. EQUIPMENT LISTING**

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

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

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

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

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

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

#### **A. Rules Updated or Evaluated**

- District Rule 2020, Exemptions (amended December 18, 2014)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended August 18, 2019 – SIP version ⇒ amended April 20, 2023 – non-SIP version)
- District Rule 2520, Federally Mandated Operating Permits (amended June 20, 2024)
- District Rule 4601, Architectural Coatings (amended April 16, 2020)
- District Rule 4702, Internal Combustion Engines (amended November 14, 2013 – SIP version ⇒ amended August 19, 2021 – non-SIP version)
- District Rule 8051, Open Areas (amended September 21, 2023)
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (amended August 30, 2024)
- 40 CFR Part 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines (amended October 7, 2020)

- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended August 30, 2024)
- 40 CFR Part 64, Compliance Assurance Monitoring (amended October 22, 1997)
- 40 CFR Part 75, Continuous Emission Monitoring (amended June 5, 2023)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended March 24, 2021)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction (amended July 15, 2024)

**B. Rules Removed**

- Merced County Rule 109, Equipment Breakdown (SIP approved June 18, 1982)
- San Joaquin County Rule 110, Equipment Breakdown (SIP approved December 5, 1984)
- Fresno County Rule 110, Equipment Breakdown (SIP approved August 22, 1977 ⇒ Rescinded from the SIP March 28, 2024)
- Kern County Rule 111, Equipment Breakdown (SIP approved October 24, 1980 ⇒ Rescinded from the SIP March 28, 2024)
- Kings County Rule 111, Equipment Breakdown (SIP approved, last amended June 18, 1982 ⇒ Rescinded from the SIP March 28, 2024)
- Tulare County Rule 111, Equipment Breakdown (SIP approved August 22, 1977 ⇒ Rescinded from the SIP March 28, 2024)
- Madera County Rule 113, Equipment Breakdown (SIP approved November 18, 1983 ⇒ Rescinded from the SIP March 28, 2024)
- District Rule 2040, Applications (amended December 17, 1992)

**C. Rules Added**

There are no applicable rules that were added since the previous Title V was issued.

**D. Rules Not Updated**

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 1160, Emission Statements (adopted November 18, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2410, Prevention of Significant Deterioration (adopted June 16, 2011)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration, (amended December 17, 1992)
- District Rule 4202, Particulate Matter – Emission Rate, (amended December 17, 1992)
- District Rule 4701, Internal Combustion Engines – Phase 1, (amended August 21, 2003)
- District Rule 4703, Stationary Gas Turbines, (amended September 20, 2007)
- District Rule 8011, General Requirements (amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)

- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 60, Subpart GG, Standards of Performance for Stationary Gas Turbines (amended February 27, 2014)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)
- 40 CFR Part 72, Subpart A, Acid Rain Program General Provisions (amended March 28, 2011)
- 40 CFR Part 73, Sulfur Dioxide Allowance System (amended March 23, 1993)
- 40 CFR Part 77, Excess Emissions (amended May 12, 2005)

## VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the federally enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit".

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

### A. Rules Added/Updated

- District Rule 2040, Applications (amended December 17, 1992, adopted into the SIP September 21, 1999 ⇒ rescinded from the SIP December 16, 2004)

District Rule 2040 was adopted into the State Implementation Plan (SIP) September 21, 1999.<sup>1</sup> However, effective December 16, 2004<sup>2</sup>, as a correction to California's SIP, EPA removed Rule 2040 as well as rules from over 30 California air districts that solely concerned administrative actions, local fees, enforcement authorities,

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<sup>1</sup> <https://www.govinfo.gov/content/pkg/FR-1999-07-23/pdf/FR-1999-07-23.pdf>

<sup>2</sup> <https://www.federalregister.gov/documents/2004/11/16/04-25398/corrections-to-the-california-state-implementation-plan>

variances, and hearing board procedures, which were deemed not relevant to the SIP. However, the current facility-wide permit, condition #7, indicates Rule 2040 is federally enforceable. Therefore, the federal enforceability designation will be removed from condition #7 on the proposed facility-wide permit:

- 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~~

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

- District Rule 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 4102, Nuisance (amended December 17, 1992)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- District Rule 7012, Hexavalent Chromium – Cooling Towers (amended December 17, 1992)
- Title 17 California Code of Regulations (CCR), Section 93115, Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines (amended May 19, 2011)

### **VIII. PERMIT REQUIREMENTS**

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

#### **A. Fresno County Rule 110, Kern County Rule 111, Kings County Rule 111, Madera County Rule 113, Stanislaus County Rule 110, and Tulare County Rule 111 - Equipment Breakdown**

On March 28, 2024, the EPA took final action to rescind Fresno County Rule 110, Stanislaus County Rule 110, Kern County Rule 111, Kings County Rule 111, Tulare County Rule 111, and Madera County Rule 113 from the District's State Implementation Plan (SIP). Furthermore, the references to Merced County Rule 109 and San Joaquin County Rule 110 will also be removed from the permit since the facility is not located within Merced County or San Joaquin County.

Therefore, conditions 1, 2 and 39 on the proposed draft renewed Permit N-7172-0-4 have been updated to remove the references listed above.

- 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 Rule 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit~~
- 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~~
- 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

#### **B. District Rule 2020 - Exemptions**

This rule specifies emissions units that are not required to obtain an Authority to Construct or Permit to Operate. This rule also specifies the recordkeeping requirements to verify the exemption and outlines the compliance schedule for emissions units that lose the exemption after installation.

District Rule 2020 was amended on December 18, 2014, however, the amended rule is not SIP-approved by the EPA. The previous version of this rule (amended August 18, 2011) is SIP-approved. The December 18, 2014 amendments to this rule clarified Rule 2020 to assure proper interpretation of the rule's consistency with existing state requirements along with other minor changes; furthermore, the amendments do not result in new or more stringent regulatory controls beyond those already enforced.

Condition #4 on N-7172-0-4 will be updated such that the most recent version of the rule is referenced:

- 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~~ 12/18/14). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit

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

District Rule 2201 has been amended since this facility's initial Title V permit was issued. However, the requirements of this rule are only triggered at the time the source undergoes a modification. All applicable requirements from any NSR permit actions have already been incorporated into the current Title V permit. The updated requirements of this rule are therefore not applicable at this time.

**D. District Rule 2520 - Federally Mandated Operating Permits**

This rule has been amended since the Title V permit was last renewed, but the last amended version of the rule is not SIP approved. Additionally, the amendments to this rule do not have any effect on current permit requirements. However, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

**Greenhouse Gas Discussion**

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

**E. District Rule 4601 - Architectural Coatings**

This rule limits the emissions of VOCs from architectural coatings. The VOC content limits for coatings and colorants are listed in Tables 1 and 2, respectively, of Section 5.0 of the amended rule. This rule also specifies architectural coatings storage, cleanup, and labeling requirements.

The rule was amended on April 16, 2020, and EPA has approved the rule for inclusion in the SIP on December 14, 2022. The amendments to the rule include the following:

- Numerous definitions were added, deleted or modified in order to make the amended rule harmonize with definitions and rule requirements presented in the California Air Resources Board (ARB) Suggested Control Measures (SCM).
- The amended rule implements the recommended VOC limits per the ARB SCM. The following changes were as follows: 15 coating categories were eliminated, 10 were added, 19 coatings categories remained unchanged, and the VOC content limits for 19 categories were lowered.
- The phrase "blends or repackages" was added to rule language to extend the applicability of rule language to facilities involved in those activities.
- A reporting requirement was added for any architectural coating that is sold in a container with a volume of one liter or less. The exemption for architectural coatings was further defined by adding "coatings that are supplied and offered for sale" to current language, in order to make the rule consistent with the ARB SCM.
- Labeling requirements were updated to add new labeling standards consistent with new coatings categories per the SCM.
- A new section was added to include reporting requirements per the SCM. The SCM contains a new requirement to submit sales data. Collection of this data is authorized in the California Health and Safety Code which requires submission of data to estimate emissions.
- New sections were added to coincide with new coating categories pursuant to the ARB SCM.
- The compliance schedule was updated to account for the new amendments to rule language by adding the phrase "the dates specified within the text of the rule."

The following changes were included in the latest rule amendment that resulted in revising current permit requirements:

- The tables outlining the VOC content of different specialty coatings and colorants have been largely replaced with the Table 1 and Table 2 in Section 5.0.

To ensure compliance with Rule 4601, conditions 23, 24, and 25 of the draft facility-wide permit N-7172-0-4 have been updated as follows:

- No person shall manufacture, blend, repackage, supply, market, sell, solicit or apply any architectural coating or colorant with a VOC content in excess of the applicable limits specified in Table 1 (Coatings) and Table 2 (Colorants) of District Rule 4601 (4/16/20), unless exempted under section 4.0 of District Rule 4601 (Amended 4/16/20). [District Rule 4601]

- All VOC-containing materials subject to Rule 4601 (4/16/20) shall be stored in closed containers when not in use. [District Rule 4601]
- The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (4/16/20). [District Rule 4601] .

**F. District Rule 4702 - Internal Combustion Engines**

The purpose of this rule is to limit the emissions of nitrogen oxides (NOx), carbon monoxide (CO), volatile organic compounds (VOC), particulate matter (PM), and sulfur oxides (SOx) from internal combustion engines. This rule applies to any internal combustion engine rated at 25 brake horsepower or greater.

District Rule 4702 was amended on August 19, 2021. However, the amended rule is not SIP-approved by EPA. The previous version of this rule (amended November 14, 2013) is SIP-approved and was addressed by the District's previous TV permit renewal. The August 19, 2021 amendment to this rule consisted of the lowering of the NOx and VOC emissions limits for some engine categories, clarifications to definitions, and updates to test methods. Additionally, the amendments established Particulate Matter Emission Control Requirements for all engines that are operated in the Valley as well as SOx control requirements for agricultural engines. Based on these amendments to the SIP approved rule, the amended rule is as stringent as, if not more stringent, than the SIP approved version of the rule.

- a. N-7172-4-4: 300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP

Since the unit is an emergency engine equipped with nonresettable elapsed time meters, then it may enjoy exemptions from the requirements of this rule pursuant to Section 4.3, except for the administrative requirements of Section 6.2.3. The amended sections of this rule are not applicable; therefore, the following conditions shall remain on the proposed renewed Title V permit to ensure continued compliance with this rule.

The following conditions of the proposed requirements listed below ensures continued compliance with this rule.

<b>Permit Unit</b>	<b>Condition #</b>
N-7172-4-4	3, 7 ,8, 9, 14, and 16

**G. District Rule 8051 - Open Areas**

This rule limits fugitive dust emissions from open areas, and is applicable to facilities that have open areas of 0.5 acres or more within urban areas or 3.0 acres or more within rural areas, and contain at least 1,000 square feet of disturbed surface area.

Section 5.0 requires that whenever an open area is disturbed or vehicles are used in an open area, the owner/operator shall implement one or a combination of control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit Visible Dust Emissions (VDE) to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

The following condition of the proposed requirements of the facility-wide permit ensures compliance with this rule.

Permit Unit	Condition #
N-7172-0-4	32

**H. 40 CFR Part 60 - Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

The purpose of 40 CFR 60 Subpart III is to establish New Source Performance Standards (NSPS) to reduce emissions of NO<sub>x</sub>, SO<sub>x</sub>, CO, and VOC from new stationary compression ignition (CI) internal combustion engines.

Pursuant to Section 60.4200(a), the provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

a. N-7172-4-4: 300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP

The unit is an emergency CI engine powering a firewater pump, although for this subpart we will consider a firewater pump the same as a fire pump, and was installed in 2006. The provisions of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005. Pursuant to Section 60.4205(c), owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in Table 4 to this subpart for all pollutants.

On August 10, 2022, the provisions in this subpart that allow for emergency ICE powering generators to be operated for emergency demand response were

removed. In 2024, there were minor language revisions to the emissions standards for emergency CI ICE that were not fire pumps.

The amendments to this subpart will not result in any change to the existing emergency engine powering a fire pump (firewater pump) permit at this facility. Therefore, continued compliance with this subpart is expected, and will be ensured with the following conditions:

Permit Unit	Condition #s
N-7172-4-4	5 and 6

**I. 40 CFR Part 60 - Subpart KKKK, Standards of Performance for Stationary Combustion Turbines**

This subpart establishes emission standards and compliance schedules for the control of emissions from stationary combustion turbines that commenced construction, modification, or reconstruction after February 18, 2005.

Pursuant to §60.4300(a), this subpart is applicable to owner(s) or operator(s) of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the higher heating value of the fuel, which commenced construction, modification or reconstruction after February 18, 2005.

- a. N-7172-1-6: 84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #1 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-2
- b. N-7172-2-6: 84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #2 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-1

The two permit units are identical and both include a gas turbine rated at 1,047 MMBtu/hr. The two units were modified after February 18, 2005, and are therefore subject to the requirements of this subpart.

The amendments to this subpart only affect §60.4415 of this subpart which describes the initial and subsequent performance tests for sulfur content of the fuels combusted in the facility.

Pursuant to §60.4415(a), you must conduct an initial performance test, as required in §60.8. Subsequent SO<sub>2</sub> performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test). There are four methodologies that you may use to conduct the subsequent performance tests.

1. The use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content of all fuels combusted in the affected facility. Alternatively, the fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter may be used.
2. Periodically determine the sulfur content of the fuel combusted in the turbine, a representative fuel sample may be collected either by an automatic sampling system or manually. For automatic sampling, follow ASTM D5287 (incorporated by reference, see § 60.17) for gaseous fuels or ASTM D4177 (incorporated by reference, see § 60.17) for liquid fuels. For manual sampling of gaseous fuels, follow API Manual of Petroleum Measurement Standards, Chapter 14, Section 1, GPA 2166, or ISO 10715 (all incorporated by reference, see § 60.17). For manual sampling of liquid fuels, follow GPA 2174 or the procedures for manual pipeline sampling in section 14 of ASTM D4057 (both incorporated by reference, see § 60.17). The fuel analyses of this section may be performed either by you, a service contractor retained by you, the fuel vendor, or any other qualified agency. Analyze the samples for the total sulfur content of the fuel using:
  - i. For liquid fuels, ASTM D129, or alternatively D1266, D1552, D2622, D4294, D5453, D5623, or D7039 (all incorporated by reference, see § 60.17); or
  - ii. For gaseous fuels, ASTM D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or GPA 2140, 2261, or 2377 (all incorporated by reference, see § 60.17)
3. Measure the SO<sub>2</sub> concentration (in parts per million (ppm)), using EPA Methods 6, 6C, 8, or 20 in appendix A of this part. In addition, the American Society of Mechanical Engineers (ASME) standard, ASME PTC 19-10-1981-Part 10, "Flue and Exhaust Gas Analyses," manual methods for sulfur dioxide (incorporated by reference, see § 60.17) can be used instead of EPA Methods 6 or 20. For units complying with the output based standard, concurrently measure the stack gas flow rate, using EPA Methods 1 and 2 in appendix A of this part, and measure and record the electrical and thermal output from the unit. Then use the following equation to calculate the SO<sub>2</sub> emission rate:

$$E = \frac{(1.664 \times 10^{-7}) \times (SO_2)_c \times Q_{std}}{P}$$

Where:

E = SO<sub>2</sub> emission rate, in lb/MWh

1.664 × 10<sup>-7</sup> = conversion constant, in lb/dscf-ppm

(SO<sub>2</sub>)<sub>c</sub> = average SO<sub>2</sub> concentration for the run, in ppm

Q<sub>std</sub> = stack gas volumetric flow rate, in dscf/hr

P = gross electrical and mechanical energy output of the combustion turbine, in MW (for simple-cycle operation), for combined-cycle operation, the sum of all electrical and mechanical output from the combustion and steam turbines, or, for combined heat and power operation, the sum of all electrical and mechanical output from the combustion and steam turbines plus all useful recovered thermal output not used for additional electric or mechanical generation, in MW, calculated according to § 60.4350(f)(2); or

4. Measure the SO<sub>2</sub> and diluent gas concentrations, using either EPA Methods 6, 6C, or 8 and 3A, or 20 in appendix A of this part. In addition, you may use the manual methods for sulfur dioxide ASME PTC 19-10-1981-Part 10 (incorporated by reference, see § 60.17). Concurrently measure the heat input to the unit, using a fuel flowmeter (or flowmeters), and measure the electrical and thermal output of the unit. Use EPA Method 19 in appendix A of this part to calculate the SO<sub>2</sub> emission rate in lb/MMBtu. Then, use Equations 1 and, if necessary, 2 and 3 in § 60.4350(f) to calculate the SO<sub>2</sub> emission rate in lb/MWh

The amendment introduced requirements listed in Section §60.4415(a)(1) as a new alternate methodology for sulfur performance tests. More specifically, this section allows the use of a current, valid purchase contracts, or tariff sheets, or transportation contracts, for the fuel specifying the maximum total sulfur content of all fuels to be combusted in the facility. Alternatively, the fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter may be used.

Section §60.4415(a)(2) was amended to list manual sampling methods of gaseous fuels, and add alternate testing methods for liquid fuels or gaseous fuels. Sections §60.4415(a)(3) and (4) are unchanged and do not apply to units N-7172-1 or '-2.

Condition 53 on units N-7172-1-6 and -2-6 were modified to include the new method of demonstrating compliance with fuel sulfur limits pursuant to 40 CFR 60.4415(a)(1). In addition, this rule reference is added to condition #5 on both units '-1-6 and '-2-6.

- If necessary, testing for fuel sulfur content shall be conducted utilizing ASTM Method D 3246, ASTM Method D1072, ASTM Method D4468, ASTM Method D5504 or ASTM Method D3246. In lieu of the aforementioned performance

tests, the use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content of all fuels combusted in the facility may be used. Alternatively, the fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D of Part 75 may be used. [District Rules 1081, 4001 and 40 CFR Part 60.4415 and 40 CFR Part 75, Subpart D]

The amendments to this rule did not change the stringency of the existing regulations as discussed above. Therefore, continued compliance with this subpart is expected, and will be ensured with the following conditions:

Permit Unit	Condition #
N-7172-1-6	4, 7, 11, 12, 13, 14, 21, 53, 56, and 62
N-7172-2-6	4, 7, 11, 12, 13, 14, 21, 53, 56, and 62

**J. 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

§63.6585 Am I subject to this subpart?

This subpart applies to owners and operators of stationary reciprocating internal combustion engines (RICE) operated at a major or area source of Hazardous Air Pollutant (HAP) emissions.

§63.6585(b) states a major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

§63.6585(c) states an area source of HAP emissions is a source that is not a major source.

This facility is not a major source for HAP emissions and is therefore an area source for HAP emissions. Thus, this facility is subject to this subpart.

§63.6585(f) states that an existing emergency stationary RICE meeting the definition of an emergency stationary RICE in §63.6675 used at residential, commercial, or institutional sources are not subject to this subpart. The Turlock Irrigation facility is a power generation facility which is not residential, commercial or institutional. Therefore, this facility is subject to this subpart.

§63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source. §63.6590(a) states than an affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand

**a. N-7172-4-4: 300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP**

The engine under unit N-7172-4 was installed in 2006 and is considered an existing emergency stationary RICE. It is located at an area source of HAP emissions, based on a previous HAP determination performed under project N-1140646. Therefore, pursuant to §63.6590(2)(iii), it is subject to the requirements of this subpart.

The amendments to this subpart include the streamlining of the existing fuel quality regulations pursuant to Section §63.6604, the addition of moisture content measurements for preform tests, changes to reporting requirements for major sources of HAP, and revisions to paragraphs (b) and (d) in Section § 63.6645.

In addition, Table 2d, of this subpart was modified to clarify the requirements for annual inspections and maintenance. The amended requirements for inspections and/or maintenance are now required within 1 year and 30 days of the previous change. Previously, this part would only require ‘annual’ inspections and/or maintenance. Conditions 10, 11, and 12 have been modified to account for the amended language.

The amendments did not change the stringency of existing regulations, i.e., fuel quality standards, maintenance requirements, etc. Therefore, continued compliance with this subpart is expected and ensured with the following conditions:

<b>Permit Unit</b>	<b>Condition #</b>
N-7172-4-4	3, 7, 8, 10, 11, 12, 13, 14, and 15

**K. 40 CFR Part 64 - Compliance Assurance Monitoring (CAM)**

40 CFR Part 64 requires Compliance Assurance Monitoring for units that meet the following three criteria:

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

<b>Pollutant</b>	<b>Major Source Threshold (lb/year)</b>
NOx	20,000
SOx	140,000
PM10	140,000
CO	200,000
VOC	20,000

The following units are identical, therefore the following discussion applies to both units N-7172-1-6 and '2-6.

- a) N-7172-1-6: 84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #1 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-2
- b) N-7172-2-6: 84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #2 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-1
  - 1) These permit units have emission limits for NOx, SOx, PM10, CO, and VOC.

- 2) Each turbine is equipped with emission control devices for only NO<sub>x</sub>, CO and VOC.
  - a. The units are equipped with Continuous Emission Monitoring (CEM) systems for NO<sub>x</sub> and CO pollutants. Therefore, they are exempt from CAM for NO<sub>x</sub> and CO per 40 CFR Part 64.2(b)(vi).
- 3) Each unit's pre-controlled potential to emit is determined below:

There are two scenarios under which the units may operate:

- Steady state operation for 8,760 hours per year
- Start-up and shutdown episodes with periods of steady state operation.

Scenario 1 (Steady-State Operation for 8,760 hours per year):

Emission Guarantee (Current PTO):	1.4 ppmvw (uncorrected)
Stack O <sub>2</sub> @ 1.4 ppmvw uncorrected:	13.85% by volume
Stack Moisture @ 1.4 ppmvw:	7.13% by volume

Emissions corrected to dry conditions @ 15% O<sub>2</sub>:

$$\text{VOC} = (1.4 \text{ ppmvw}) \times ((20.95-13.85) / (20.95-15)) \times (1-0.0713)$$
$$\text{VOC} = 1.55 \text{ ppmvd @ 15\% O}_2$$

Fuel Usage Capacity:

The permitted rating is 1,047 MMBtu/hr, however it can operate at that level only when the ambient temperature is at or below 32 °F with the fuel burning capacity dropping as the ambient temperature increases. The General Electric Company submitted information stating that the average annual rating would be 989.1 MMBtu/hr at an ambient temperature of 61 °F. Since the purpose of this calculation is to determine an annual emission rate, the to determine an annual emission rate, the rating based on the average annual temperature will be utilized. Since the ambient temperature in this area is actually higher, the assumption of 61 °F is a conservative estimate.

Uncontrolled Potential to Emit:

$$\text{PE} = [(\text{PPM}) (\text{MW}) (2.63 \times 10^{-9}) (\text{ff}) (\text{C}) (20.95/20.95 - \% \text{O}_2)] \text{ lb/hr}$$

Where:            Uncontrolled VOC emission concentration  
                         VOC = 1.55 ppmvd (@15% O<sub>2</sub>)  
                         MW is the molecular wt. of the pollutant  
                         VOC = 16  
                         2.63 x 10<sup>-9</sup> is a constant (at 61 degrees F)

ff is the F-factor of natural gas 8,578 dscf/MMBtu at 61 °F  
C is the annual average capacity of the equipment in  
MMBtu/hr  
% O<sub>2</sub> is the oxygen content to which the stack exhaust is  
corrected (15%)

Average Annual Rating: 989.1 MMBtu/hr (@ 61 °F)  
Op Schedule: 8,760 hr/yr

PE<sub>VOC</sub> (uncontrolled):

$$= [(1.55) (16) (2.63 \times 10^{-9}) (8,578) (989.1) (20.95/(20.95-15))] \times (8,760 \text{ hr/yr})$$
$$= 17,069 \text{ lb-VOC/yr}$$

The uncontrolled potential to emit of VOC in scenario 1 is less than the major source threshold of 20,000 lb/yr for each turbine. Therefore, these units are not subject to CAM requirements for VOC pollutants.

Scenario 2 (Start-up and Shutdown episodes with periods of steady-state operation):

Start-up/shutdown hour limit: 296 hr/yr (Current PTO)  
Start-up/shutdown emission limit: 16 lb/hr (Current PTO)

Both units '-1 and '-2 are limited by their Permits to Operate to an annual VOC emission rate of 17,404 pounds. This limit was determined by assuming the unit would utilize its full start-up/shutdown allowance of 296 hr/yr and then only operate at steady state conditions for 7,280 hr/yr in order to remain under the 17,404 lb-VOC/yr emission limit.

Steady State hour limit: 7,280 hr/yr

Uncontrolled Potential to Emit:

PE<sub>VOC</sub> (uncontrolled): (Start-up/Shutdown) + (Steady State)

$$= (296 \times 16) + [(1.55) (16) (2.63 \times 10^{-9}) (8,578) (989.1) (20.95/(20.95-15))$$
$$\times (7,280 \text{ hr/yr})]$$

$$= 18,921 \text{ lb-VOC/yr}$$

The uncontrolled potential to emit of VOC while operating under scenario 2 is less than the major source threshold of 20,000 lb/yr. Therefore, these units are not subject to CAM requirements for VOC pollutants.

CAM Summary for N-7172-1 and '-2:

PM10 and SOx:

Units are not equipped with emission control systems for PM10 and SOx emissions and are therefore not subject to CAM requirements.

NOx and CO:

Units are equipped with CEM equipment and are therefore exempt from CAM requirements for NOx and CO emissions.

VOC:

The uncontrolled potential to emit of VOC pollutants are less than the major source threshold of 20,000 lb/yr in either operating scenario. Therefore, these units are not subject to CAM requirements for VOC emissions.

Use of the continuous monitoring and recording device satisfies the CAM requirements for NOx and CO emissions. The 40 CFR Part 64 rule reference will be included on the permit conditions listed below.

Permit Unit	Condition #
N-7172-1-6	7, 11, 12, and 13
N-7172-2-6	7, 11, 12, and 13

c) N-7172-3-4: 68,500 GPM MECHANICAL DRAFT COOLING TOWER WITH 5 CELLS SERVED BY A HIGH EFFICIENCY DRIFT ELIMINATOR

- 1) This permit unit has an emission limit for PM10 only.
- 2) This cooling tower is equipped with a drift eliminator.

The drift eliminator is an integral part of the cooling tower and passively controls drift from the cooling tower. Pursuant to the definition of a control device, as stated in §64.1, a control device does not include passive control measures that act to prevent pollutants from forming.

Therefore, the drift eliminator is not considered an add on control device and this unit is not subject to CAM requirements for any pollutants.

- d) N-7172-4-4: 300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP
- 1) This permit unit has emission limits for NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC only.
  - 2) This unit is not equipped with any control devices, as defined in §64.1

Therefore, this unit is not subject to CAM requirements for any pollutants

**L. 40 CFR Part 75 - Continuous Emission Monitoring**

The purpose of this part is to establish requirements for the monitoring, recordkeeping, and reporting of sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), and carbon dioxide (CO<sub>2</sub>) emissions, volumetric flow, and opacity data. In addition, this part sets forth provisions for the monitoring, recordkeeping, and reporting of NO<sub>x</sub> mass emissions.

These regulations apply to each affected unit subject to Acid Rain emission limitations of reduction requirements for SO<sub>2</sub> or NO<sub>x</sub>, except as provided in (b) and (c) of 40 CFR Part 75, Section §75.2.

- a) N-7172-1-6: 84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NO<sub>x</sub> COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #1 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-2
- b) N-7172-2-6: 84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NO<sub>x</sub> COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #2 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-1

Both units N-7172-1-6 and '-2-6 are subject to the provisions of this part pursuant to §75.2.

The amendments to this part do not result in a modification to the current permit requirements and will therefore not be addressed further in this evaluation. The

following conditions listed the table below will be maintained to ensure compliance with the requirements of this part.

Permit Unit	Condition #s
N-7172-1-6	53, 65, 66, 69, 75, and 76
N-7172-2-6	53, 65, 66, 69, 75, and 76

**M. 40 CFR Part 82, Subpart B - Servicing of Motor Vehicle Air Conditioners**

The purpose of this subpart is to implement section 609 of the Clean Air Act, as amended regarding the servicing of motor vehicle air conditioners (MVACs), and to implement section 608 of the Clean Air Act regarding certain servicing, maintenance, repair, and disposal of air conditioners in MVACs and MVAC-like appliances.

These regulations apply to any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner.

The amendments to this subpart do not result in a modification to the current permit requirement and will not be addressed any further in this evaluation. The following condition will be maintained to ensure compliance with this subpart.

Permit Unit	Condition #
N-7172-0-4	28

**N. 40 CFR Part 82, Subpart F - Recycling and Emissions Reduction**

The purpose of 40 CFR Part 82 Subpart F is to reduce emissions of class I and class II refrigerants and their substitutes to the lowest achievable level by maximizing the recapture and recycling of such refrigerants during the service, maintenance, repair, and disposal of appliances and restricting the sale of refrigerants consisting in whole or in part of a class I and class II ODS in accordance with Title VI of the Clean Air Act.

These regulations apply to any person servicing, maintaining, or repairing appliances. This subpart also applies to persons disposing of appliances, including small appliances and motor vehicle air conditioners. In addition, this subpart applies to refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.

The amendments to this subpart do not result in a modification to the current permit requirements, and will not be addressed any further in this evaluation. The following condition will be maintained to ensure compliance with the requirements of this subpart:

Permit Unit	Condition #
N-7172-0-4	27

## IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

### A. Requirements Addressed by Model General Permit Templates

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

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

The applicant has not requested a permit shield for any requirements.

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

Several county rules that have been removed from the San Joaquin Valley SIP recently as discussed in Section VII.A. References to non-applicable rules will be removed from permit shield condition #39 on the facility-wide permit N-7172-0-4 has been updated as follows:

- 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]

As noted in Section VII.D, District Rule 4601 was amended on April 16, 2020 and was SIP-approved on December 14, 2022, District Rule 8051 was amended on September 21, 2023 and SIP-approved on October 4, 2024. Since the permit shields do not cover the latest versions of the rules, condition #40 on the facility-wide permit N-2246-0-5 has been updated to remove these amended rules:

- 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 (8/9/04)~~; 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2]

## **X. CALIFORNIA ENVIRONMENTAL QUALITY ACT**

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

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

## **XI. PERMIT CONDITIONS**

See Attachment A - Draft Renewed Title V Operating Permit.

## **ATTACHMENTS**

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Summary List of Facility Permits

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# ATTACHMENT A

Draft Renewed Title V Operating Permit

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# San Joaquin Valley Air Pollution Control District

FACILITY: N-7172-0-4

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]
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]
3. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. 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 (12/18/2014). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/1992) shall be filed in a manner and form prescribed by the District. [District Rule 2040]
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

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: WALNUT ENERGY CENTER AUTHORITY  
Location: 600 S WASHINGTON ROAD, TURLOCK, CA 95380  
N-7172-0-4 : 2/26/2026 2:34:13 PM - AVILAG

10. {4371} The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. 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 (6/20/24). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. {4373} If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. {4374} It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. {4375} The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. {4376} The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. {4377} The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. {4378} The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. {4379} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. {4380} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. {4381} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. {4382} Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit

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

22. {4383} No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
23. No person shall manufacture, blend, repackage, supply, market, sell, solicit or apply any architectural coating or colorant with a VOC content in excess of the applicable limits specified in Table 1 (Coatings) and Table 2 (Colorants) of District Rule 4601 (4/16/2020), unless exempted under section 4.0 of District Rule 4601 (Amended 4/16/2020). [District Rule 4601] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to District Rule 4601 (4/16/2020) shall be stored in closed containers when not in use. [District Rule 4601] 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 (4/16/2020). [District Rule 4601] Federally Enforceable Through Title V Permit
26. {4387} With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. {4388} If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. {4389} If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. {4390} Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. {4391} Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. {4392} An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. 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 (9/21/2023) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. {4394} Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit

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

34. {4395} Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. {4396} Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit
36. {4397} The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. {4398} The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. {4399} When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. 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), 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 (12/17/1992); 2010, sections 3.0 and 4.0 (12/17/1992); 2031 (12/17/1992); 2040 (12/17/1992); 2070, section 7.0 (12/17/1992); 2080 (12/17/1992); 4101 (2/17/2005); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report beginning every November 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. Facilities N-2246 and N-7172 are included in the same stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit

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# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-7172-1-6

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #1 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-2

## PERMIT UNIT REQUIREMENTS

1. The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater except for up to three minutes in any hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The gas turbine engine shall be fired exclusively on natural gas with a sulfur content of no greater than 0.36 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rules 2201 and 4801 and 40 CFR Part 60.4330(a)(2), 40 CFR Part 60.4395 and 40 CFR Part 60.7)] Federally Enforceable Through Title V Permit
5. Testing to demonstrate compliance with the fuel sulfur content limit of this permit shall be conducted weekly. Once eight consecutive weekly tests show compliance, the fuel sulfur content testing frequency may be reduced to once every calendar quarter. If a quarterly test shows a violation of the sulfur content limit of this permit then weekly testing shall resume and continue until eight consecutive tests show compliance. Once compliance is shown on eight consecutive weekly tests then testing may return to quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the fuel flow rate to the turbine, NOx emission rate, the CO emission rate, the ammonia injection rate, the exhaust temperature both prior to and after the SCR unit, the exhaust oxygen content, and the exhaust flow rate. [District Rules 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NOx, CO, and O2. The CO CEM shall meet the requirements of 40 CFR parts 60 and the NOx and O2 CEMS shall be installed and certified in accordance with the requirements of 40 CFR Part 75. The CEMS shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. Periods where the missing data substitution procedures in Part 75 Subpart D are applied shall be reported as monitor downtime in the District Quarterly CEMS Report. [District Rules 1080, 2201 and 4703 and 40 CFR Part 60.13(a), 40 CFR Part 60.4340(b), 40 CFR Part 60.4345(a), 40 CFR Part 60.4350(d) and 40 CFR Part 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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8. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
9. 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
10. 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
11. 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. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required to validate the hour. [District Rule 1080, 40 CFR Part 60.13(e)(2), 40 CFR Part 60.13(h)(2), 40 CFR Part 60.4345(b), 40 CFR Part 60.4350(a) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
12. Owners and operators of a CEMS installed in accordance with the provisions of 40 CFR Part 60 must check zero (or low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span must at a minimum, be adjusted whenever either the 24-hour zero drift or the 24 -hour span drift exceed two times the limit of the applicable performance specification in Appendix B of 40 CFR Part 60. The system must allow the amount of excess zero and span drift to be recorded and quantified whenever specified. [40 CFR 60.13(d)(1) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
13. Owners and operators must develop and implement a Quality Control (QC) program. As a minimum, each QC program shall include written procedures that describe in detail, complete, step-by-step procedures and operations for calibration of CEMS, calibration drift determination and adjustment, CEMS preventative maintenance, data recording/calculations/reporting, accuracy audit procedures, and corrective action for malfunctioning CEMS. Whenever excessive inaccuracies occur for two consecutive quarters, the source owner or operator must revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies. These written procedures shall be kept on record and shall be made available for inspection by the enforcement agency. [40 CFR Part 60, Appendix F and 40 CFR Part 64] Federally Enforceable Through Title V Permit
14. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit reports and an Out-of-Control Detail Report, pursuant to 40 CFR Part 60 Subpart F, shall be submitted along with quarterly compliance reports to the District. [District Rule 1080 and 40 CFR Part 60 Appendix F] Federally Enforceable Through Title V Permit
15. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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16. In the event of a breakdown of monitoring equipment, the owner shall notify the District as soon as reasonably possible, but no later than 8 hours after its detection, unless the owner or operator demonstrates to the satisfaction of the APCO that a longer reporting period was necessary, and shall initiate repairs. The owner shall inform the District of the intent to shutdown any monitoring equipment at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
17. Startup is defined as the period beginning with turbine initial firing until the unit meets the ppmvd emission limits for steady state operation. Shutdown is defined as the period beginning with initiation of turbine shutdown sequence and ending with cessation of firing of the gas turbine engine. Startup and shutdown events shall not exceed 296 hours per calendar year. Startup emissions must be counted toward each applicable emission limit (lb/day and lb/yr). [District Rule 2201] Federally Enforceable Through Title V Permit
18. The combined startup and shutdown period duration shall not exceed five hours in any one day, commencing at midnight. Emissions during startup and shutdown periods must be counted toward the applicable daily emission limitations. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
19. The unit shall comply with the New Source Review based NO<sub>x</sub> and CO limits of this permit within 5 hours after initial start-up. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
20. The NO<sub>x</sub> emissions during start-up and shutdown periods shall not exceed 119.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The NO<sub>x</sub> emissions during steady state operation shall not exceed 2.0 ppmvd @ 15% O<sub>2</sub> over a 1 hour average (clock hour basis). Steady-state period refers to any periods that is not a start-up or shut down period. A clock hour in a one hour average will commence at the top of the hour. [District Rules 2201 and 4703, 40 CFR Part 60.4320(a) and 40 CFR Part 60.4380(b)(1)] Federally Enforceable Through Title V Permit
22. The combined total NO<sub>x</sub> emissions from start-up, shut down, and steady state operation shall not exceed 444.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Compliance with NO<sub>x</sub> emission limitations during steady state operation shall not be required during short-term excursions limited to a cumulative total of 10 hours per rolling 12-month period. Short-term excursions are defined as 15 minute periods designated by the owner/operator (and approved by the APCO) that are the direct result of transient load conditions, not to exceed four consecutive 15-minute periods, when the 15-minute average NO<sub>x</sub> concentration exceeds 2.0 ppmvd @15% O<sub>2</sub>. The maximum 1-hour average NO<sub>x</sub> concentration for periods that include short-term excursions shall not exceed 30 ppmvd @ 15% O<sub>2</sub>. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Examples of transient load conditions include, but are not limited to the following: (1) Initiation/shutdown of combustion turbine inlet air cooling and (2) Rapid combustion turbine load changes. All emissions during short-term excursions shall accrue towards the hourly, daily, and annual emissions limitations of this permit and shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. The CO emissions during start-up and shutdown periods shall not exceed 129.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The CO emissions during steady state operation shall not exceed 4.0 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
27. The combined total CO emissions from start-up, shut down, and steady state operation shall not exceed 558.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
28. The VOC emissions during start-up and shutdown periods shall not exceed 16.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The VOC emissions during steady state operation shall not exceed 1.4 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rule 2201] Federally Enforceable Through Title V Permit

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30. The combined total VOC emissions from start-up, shut down, and steady state operation shall not exceed 83.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The PM10 emissions rate shall not exceed 7.0 lb/hour and 168.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
32. The SOx emission rate shall not exceed 1.05 lb/hour and 25.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Ammonia (NH3) emissions shall not exceed 10 ppmvd @ 15% O2 over a 24 hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Compliance with ammonia emission limit shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation:  $(\text{ppmvd @ 15\% O}_2) = ((a - (b \times c / 1,000,000)) \times (1,000,000 / b)) \times d$ , 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]
35. The annual emissions from this unit shall not exceed 99,991 lb/year for CO and 17,404 lb/year for VOC. [District Rule 2201] Federally Enforceable Through Title V Permit
36. The combined quarterly NOx emissions from permit units N-7172-1 and N-7172-2 shall not exceed 35,000 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The combined annual NOx emissions from permit units N-7172-1 and N-7172-2 shall not exceed 140,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The combined quarterly CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 49,996 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined annual CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 199,982 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. 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
41. Daily emissions will 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 will commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions total to determine compliance with annual emission limit will be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing to demonstrate compliance with the NOx (ppmvd), CO (ppmvd), VOC (ppmvd), PM10 (lb/hour), and NH3 (ppmvd) emission limits shall be conducted at least once every twelve months. [District Rule 2201, 4001 and 4703] Federally Enforceable Through Title V Permit

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43. Source testing to measure startup NOx, CO, and VOC mass emission rates shall be conducted for one of the gas turbines (N-7172-1 or N-7172-2) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR Part 60, Appendix B. If CEM data is not certified to determine compliance with NOx and CO startup emission limits, then source testing to measure startup NOx and CO mass emission rates shall be conducted at least once every 12 months. [District Rule 2201 and 4001] Federally Enforceable Through Title V Permit
44. 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
45. Source testing shall be witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
46. The results of each source test shall be received by the District no later than 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
47. NOx emissions (referenced as NO2) shall be determined using EPA Method 7E, EPA Method 20, or CARB 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, 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
48. 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
49. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081, 2201, and 4703] Federally Enforceable Through Title V Permit
50. Source testing to measure concentrations of PM10 shall be conducted using EPA methods 201 and 202, or EPA methods 201A and 202, or CARB method 501 in conjunction with CARB method 5. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
51. Ammonia (NH3) emissions shall be determined using BAAQMD Method ST-1B. [District Rules 1081 and 4102]
52. 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] Federally Enforceable Through Title V Permit
53. If necessary, testing for fuel sulfur content shall be conducted utilizing ASTM Method D 3246, ASTM Method D1072, ASTM Method D4468, ASTM Method D5504 or ASTM Method D3246. In lieu of the aforementioned performance tests, the use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content of all fuels combusted in the facility may be used. Alternatively, the fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D of Part 75 may be used [District Rules 1081, 4001 and 40 CFR Part 60.4415 and 40 CFR Part 75, Subpart D] Federally Enforceable Through Title V Permit
54. 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 Rule 1081 and 4001] Federally Enforceable Through Title V Permit
55. A violation of NOx and CO emission standards measured and recorded by the CEMs shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
56. The permittee shall maintain the following records: the date, time and duration of any malfunction of the continuous monitoring equipment; dates of performance testing; dates of evaluations, calibrations, checks, and adjustments of the continuous monitoring equipment; date and time period which a continuous monitoring system or monitoring device was inoperative, maintenance of CEM's, and emission measurements. [District Rules 2201, 4703, 1080, 7.3 and 40 CFR Part 60 Subpart KKKK] Federally Enforceable Through Title V Permit
57. The permittee shall maintain a daily record that includes the actual turbine start-up and stop times (local time), total hours of operation, and the quantity and type of fuel used. [District Rule 4703] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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58. The permittee shall maintain records of the date, time and duration of each bypass transition period and each primary re-ignition period. [District Rule 4703] Federally Enforceable Through Title V Permit
59. The permittee shall maintain records of the date and duration of each start-up and shutdown period. [District Rule 4703] Federally Enforceable Through Title V Permit
60. The permittee shall retain records of the cumulative annual NO<sub>x</sub>, CO, and VOC emissions. The record shall be updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
61. The permittee shall maintain hourly records of NO<sub>x</sub>, CO and ammonia concentrations (ppmv @ 15% O<sub>2</sub>). [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
62. The permittee shall submit a written report for each calendar quarter to the APCO. The report shall be received by the District within 30 days of the end of the quarter and shall include: time intervals and the magnitude of excess emissions, the nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant/source category in question; time and date of each period during which a continuous monitoring system was inoperative except for zero and span checks and the nature of system repairs and adjustments; a negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR Part 60.4375(a), 40 CFR Part 60.4395 and 40 CFR Part 60.7(c-d)] Federally Enforceable Through Title V Permit
63. 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 2201] Federally Enforceable Through Title V Permit
64. 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 Part 72] Federally Enforceable Through Title V Permit
65. 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 Part 75] Federally Enforceable Through Title V Permit
66. 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 Part 75] Federally Enforceable Through Title V Permit
67. 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 Part 73] Federally Enforceable Through Title V Permit
68. 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 Part 77] Federally Enforceable Through Title V Permit
69. 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 Part 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR Part 72 and 40 CFR Part 75] Federally Enforceable Through Title V Permit
70. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR Part 72] Federally Enforceable Through Title V Permit
71. 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 Part 73] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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72. 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 Parts 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 Part 72] Federally Enforceable Through Title V Permit
73. 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 Part 77] Federally Enforceable Through Title V Permit
74. 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 Part 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 Part 72] Federally Enforceable Through Title V Permit
75. 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 Part 75] Federally Enforceable Through Title V Permit
76. 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 Part 75] 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-7172-2-6

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #2 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-1

## PERMIT UNIT REQUIREMENTS

1. The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater except for up to three minutes in any hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The gas turbine engine shall be fired exclusively on natural gas with a sulfur content of no greater than 0.36 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rules 2201 and 4801 and 40 CFR Part 60.4330(a)(2), 40 CFR Part 60.4395 and 40 CFR Part 60.7)] Federally Enforceable Through Title V Permit
5. Testing to demonstrate compliance with the fuel sulfur content limit of this permit shall be conducted weekly. Once eight consecutive weekly tests show compliance, the fuel sulfur content testing frequency may be reduced to once every calendar quarter. If a quarterly test shows a violation of the sulfur content limit of this permit then weekly testing shall resume and continue until eight consecutive tests show compliance. Once compliance is shown on eight consecutive weekly tests then testing may return to quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the fuel flow rate to the turbine, NOx emission rate, the CO emission rate, the ammonia injection rate, the exhaust temperature both prior to and after the SCR unit, the exhaust oxygen content, and the exhaust flow rate. [District Rules 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NOx, CO, and O2. The CO CEM shall meet the requirements of 40 CFR parts 60 and the NOx and O2 CEMS shall be installed and certified in accordance with the requirements of 40 CFR Part 75. The CEMS shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. Periods where the missing data substitution procedures in Part 75 Subpart D are applied shall be reported as monitor downtime in the District Quarterly CEMS Report. [District Rules 1080, 2201 and 4703 and 40 CFR Part 60.13(a), 40 CFR Part 60.4340(b), 40 CFR Part 60.4345(a), 40 CFR Part 60.4350(d) and 40 CFR Part 64] 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.

8. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
9. 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
10. 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
11. 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. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required to validate the hour. [District Rule 1080, 40 CFR Part 60.13(e)(2), 40 CFR Part 60.13(h)(2), 40 CFR Part 60.4345(b), 40 CFR Part 60.4350(a) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
12. Owners and operators of a CEMS installed in accordance with the provisions of 40 CFR Part 60 must check zero (or low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span must at a minimum, be adjusted whenever either the 24-hour zero drift or the 24 -hour span drift exceed two times the limit of the applicable performance specification in Appendix B of 40 CFR Part 60. The system must allow the amount of excess zero and span drift to be recorded and quantified whenever specified. [40 CFR 60.13(d)(1) and 40 CFR Part 64] Federally Enforceable Through Title V Permit
13. Owners and operators must develop and implement a Quality Control (QC) program. As a minimum, each QC program shall include written procedures that describe in detail, complete, step-by-step procedures and operations for calibration of CEMS, calibration drift determination and adjustment, CEMS preventative maintenance, data recording/calculations/reporting, accuracy audit procedures, and corrective action for malfunctioning CEMS. Whenever excessive inaccuracies occur for two consecutive quarters, the source owner or operator must revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies. These written procedures shall be kept on record and shall be made available for inspection by the enforcement agency. [40 CFR Part 60, Appendix F and 40 CFR Part 64] Federally Enforceable Through Title V Permit
14. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit reports and an Out-of-Control Detail Report, pursuant to 40 CFR Part 60 Subpart F, shall be submitted along with quarterly compliance reports to the District. [District Rule 1080 and 40 CFR Part 60 Appendix F] Federally Enforceable Through Title V Permit
15. 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] 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.

16. In the event of a breakdown of monitoring equipment, the owner shall notify the District as soon as reasonably possible, but no later than 8 hours after its detection, unless the owner or operator demonstrates to the satisfaction of the APCO that a longer reporting period was necessary, and shall initiate repairs. The owner shall inform the District of the intent to shutdown any monitoring equipment at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
17. Startup is defined as the period beginning with turbine initial firing until the unit meets the ppmvd emission limits for steady state operation. Shutdown is defined as the period beginning with initiation of turbine shutdown sequence and ending with cessation of firing of the gas turbine engine. Startup and shutdown events shall not exceed 296 hours per calendar year. Startup emissions must be counted toward each applicable emission limit (lb/day and lb/yr). [District Rule 2201] Federally Enforceable Through Title V Permit
18. The combined startup and shutdown period duration shall not exceed five hours in any one day, commencing at midnight. Emissions during startup and shutdown periods must be counted toward the applicable daily emission limitations. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
19. The unit shall comply with the New Source Review based NO<sub>x</sub> and CO limits of this permit within 5 hours after initial start-up. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
20. The NO<sub>x</sub> emissions during start-up and shutdown periods shall not exceed 119.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The NO<sub>x</sub> emissions during steady state operation shall not exceed 2.0 ppmvd @ 15% O<sub>2</sub> over a 1 hour average (clock hour basis). Steady-state period refers to any periods that is not a start-up or shut down period. A clock hour in a one hour average will commence at the top of the hour. [District Rules 2201 and 4703, 40 CFR Part 60.4320(a) and 40 CFR Part 60.4380(b)(1)] Federally Enforceable Through Title V Permit
22. The combined total NO<sub>x</sub> emissions from start-up, shut down, and steady state operation shall not exceed 444.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Compliance with NO<sub>x</sub> emission limitations during steady state operation shall not be required during short-term excursions limited to a cumulative total of 10 hours per rolling 12-month period. Short-term excursions are defined as 15 minute periods designated by the owner/operator (and approved by the APCO) that are the direct result of transient load conditions, not to exceed four consecutive 15-minute periods, when the 15-minute average NO<sub>x</sub> concentration exceeds 2.0 ppmvd @15% O<sub>2</sub>. The maximum 1-hour average NO<sub>x</sub> concentration for periods that include short-term excursions shall not exceed 30 ppmvd @ 15% O<sub>2</sub>. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Examples of transient load conditions include, but are not limited to the following: (1) Initiation/shutdown of combustion turbine inlet air cooling and (2) Rapid combustion turbine load changes. All emissions during short-term excursions shall accrue towards the hourly, daily, and annual emissions limitations of this permit and shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. The CO emissions during start-up and shutdown periods shall not exceed 129.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The CO emissions during steady state operation shall not exceed 4.0 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
27. The combined total CO emissions from start-up, shut down, and steady state operation shall not exceed 558.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
28. The VOC emissions during start-up and shutdown periods shall not exceed 16.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The VOC emissions during steady state operation shall not exceed 1.4 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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30. The combined total VOC emissions from start-up, shut down, and steady state operation shall not exceed 83.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The PM10 emissions rate shall not exceed 7.0 lb/hour and 168.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
32. The SOx emission rate shall not exceed 1.05 lb/hour and 25.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Ammonia (NH3) emissions shall not exceed 10 ppmvd @ 15% O2 over a 24 hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Compliance with ammonia emission limit shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation:  $(\text{ppmvd @ 15\% O}_2) = ((a - (b \times c / 1,000,000)) \times (1,000,000 / b)) \times d$ , 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]
35. The annual emissions from this unit shall not exceed 99,991 lb/year for CO and 17,404 lb/year for VOC. [District Rule 2201] Federally Enforceable Through Title V Permit
36. The combined quarterly NOx emissions from permit units N-7172-1 and N-7172-2 shall not exceed 35,000 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The combined annual NOx emissions from permit units N-7172-1 and N-7172-2 shall not exceed 140,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The combined quarterly CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 49,996 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined annual CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 199,982 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. 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
41. Daily emissions will 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 will commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions total to determine compliance with annual emission limit will be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing to demonstrate compliance with the NOx (ppmvd), CO (ppmvd), VOC (ppmvd), PM10 (lb/hour), and NH3 (ppmvd) emission limits shall be conducted at least once every twelve months. [District Rule 2201, 4001 and 4703] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

43. Source testing to measure startup NO<sub>x</sub>, CO, and VOC mass emission rates shall be conducted for one of the gas turbines (N-7172-1 or N-7172-2) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR Part 60, Appendix B. If CEM data is not certified to determine compliance with NO<sub>x</sub> and CO startup emission limits, then source testing to measure startup NO<sub>x</sub> and CO mass emission rates shall be conducted at least once every 12 months. [District Rule 2201 and 4001] Federally Enforceable Through Title V Permit
44. 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
45. Source testing shall be witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
46. The results of each source test shall be received by the District no later than 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
47. NO<sub>x</sub> emissions (referenced as NO<sub>2</sub>) shall be determined using EPA Method 7E, EPA Method 20, or CARB 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, 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
48. 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
49. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081, 2201, and 4703] Federally Enforceable Through Title V Permit
50. Source testing to measure concentrations of PM<sub>10</sub> shall be conducted using EPA methods 201 and 202, or EPA methods 201A and 202, or CARB method 501 in conjunction with CARB method 5. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
51. Ammonia (NH<sub>3</sub>) emissions shall be determined using BAAQMD Method ST-1B. [District Rules 1081 and 4102]
52. 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] Federally Enforceable Through Title V Permit
53. If necessary, testing for fuel sulfur content shall be conducted utilizing ASTM Method D 3246, ASTM Method D1072, ASTM Method D4468, ASTM Method D5504 or ASTM Method D3246. In lieu of the aforementioned performance tests, the use of a current, valid purchase contract, tariff sheet, or transportation contract for the fuel specifying the maximum total sulfur content of all fuels combusted in the facility may be used. Alternatively, the fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of Appendix D of Part 75 may be used [District Rules 1081, 4001 and 40 CFR Part 60.4415 and 40 CFR Part 75, Subpart D] Federally Enforceable Through Title V Permit
54. 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 Rule 1081 and 4001] Federally Enforceable Through Title V Permit
55. A violation of NO<sub>x</sub> and CO emission standards measured and recorded by the CEMs shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
56. The permittee shall maintain the following records: the date, time and duration of any malfunction of the continuous monitoring equipment; dates of performance testing; dates of evaluations, calibrations, checks, and adjustments of the continuous monitoring equipment; date and time period which a continuous monitoring system or monitoring device was inoperative, maintenance of CEM's, and emission measurements. [District Rules 2201, 4703, 1080, 7.3 and 40 CFR Part 60 Subpart KKKK] Federally Enforceable Through Title V Permit
57. The permittee shall maintain a daily record that includes the actual turbine start-up and stop times (local time), total hours of operation, and the quantity and type of fuel used. [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.

58. The permittee shall maintain records of the date, time and duration of each bypass transition period and each primary re-ignition period. [District Rule 4703] Federally Enforceable Through Title V Permit
59. The permittee shall maintain records of the date and duration of each start-up and shutdown period. [District Rule 4703] Federally Enforceable Through Title V Permit
60. The permittee shall retain records of the cumulative annual NO<sub>x</sub>, CO, and VOC emissions. The record shall be updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
61. The permittee shall maintain hourly records of NO<sub>x</sub>, CO and ammonia concentrations (ppmv @ 15% O<sub>2</sub>). [District Rules 2201 and 4201] Federally Enforceable Through Title V Permit
62. The permittee shall submit a written report for each calendar quarter to the APCO. The report shall be received by the District within 30 days of the end of the quarter and shall include: time intervals and the magnitude of excess emissions, the nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant/source category in question; time and date of each period during which a continuous monitoring system was inoperative except for zero and span checks and the nature of system repairs and adjustments; a negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR Part 60.4375(a), 40 CFR Part 60.4395 and 40 CFR Part 60.7(c-d)] Federally Enforceable Through Title V Permit
63. 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 2201] Federally Enforceable Through Title V Permit
64. 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 Part 72] Federally Enforceable Through Title V Permit
65. 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 Part 75] Federally Enforceable Through Title V Permit
66. 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 Part 75] Federally Enforceable Through Title V Permit
67. 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 Part 73] Federally Enforceable Through Title V Permit
68. 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 Part 77] Federally Enforceable Through Title V Permit
69. 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 Part 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR Part 72 and 40 CFR Part 75] Federally Enforceable Through Title V Permit
70. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR Part 72] Federally Enforceable Through Title V Permit
71. 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 Part 73] 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.

72. 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 Parts 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 Part 72] Federally Enforceable Through Title V Permit
73. 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 Part 77] Federally Enforceable Through Title V Permit
74. 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 Part 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 Part 72] Federally Enforceable Through Title V Permit
75. 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 Part 75] Federally Enforceable Through Title V Permit
76. 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 Part 75] 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-7172-3-4

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

68,500 GPM MECHANICAL DRAFT COOLING TOWER WITH 5 CELLS SERVED BY A HIGH EFFICIENCY DRIFT ELIMINATOR

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good 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
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012]
4. Drift eliminator drift rate shall not exceed 0.0005%. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM10 emissions shall not exceed 30.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the PM10 emission limit (lb/day) shall be demonstrated as follows:  $PM10 \text{ lb/day} = \text{Circulating Water Recirculation rate (gal/day)} \times 8.34 \text{ lb/gal} \times \text{Total Dissolved Solids Concentration in the blowdown water (ppm} \times 10E-06) \times \text{Design Drift Rate (\%)}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with PM10 emission limit shall be determined by blowdown water sample analysis by independent laboratory every calendar quarter. [District Rule 1081] 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-7172-4-4

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP

## PERMIT UNIT REQUIREMENTS

1. The exhaust stack shall not be fitted with a rain cap, or any other similar device, that impedes upward vertical exhaust flow. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6625(f)] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, San Joaquin County Rule 407 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. The emissions from the engine shall not exceed any of the following: 5.2 grams NOx/hp-hr, 0.27 grams CO/hp-hr, or 0.15 grams VOC/hp-hr. [District Rule 2201 and 40 CFR Part 60.4205] Federally Enforceable Through Title V Permit
6. The PM10 emissions from the engine shall not exceed 0.09 grams/hp-hr based on U.S EPA certification testing using test procedure ISO 8178. [District Rules 2201 and 4102, 17 CCR 93115 and 40 CFR Part 60.4205] Federally Enforceable Through Title V Permit
7. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [District Rule 4702, 40 CFR Part 63.6605(b), 40 CFR Part 63.6625(e)(3), 40 CFR Part 63.6640(a) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
8. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 2201, 4701, 4702, 17 CCR 93115 and 40 CFR Part 63.6640(f)] Federally Enforceable Through Title V Permit
9. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The motor oil and the oil filter shall be changed at least every 500 hours of operation or within 1 year and 30 days of the previous change, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement specified in Table 2d of this subpart. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. The facility operator shall report any failure to perform this management practice on the schedule required. The report shall include the federal, state or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
11. The air cleaner shall be inspected at least every 1,000 hours of operation or within 1 year and 30 days of the previous change, whichever comes first. The air filter shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. The facility operator shall report any failure to perform this management practice on the schedule required. The report shall include the federal, state or local law under which the risk was deemed unacceptable. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
12. All belts and hoses shall be inspected at least once every 500 hours of operation or within 1 year and 30 days of the previous change, whichever comes first. The belts and hoses shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. The facility operator shall report any failure to perform this management practice on the schedule required. The report shall include the federal, state or local law under which the risk was deemed unacceptable. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
13. The permittee shall 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, after which time, the emission standards applicable to all times other than startup in tables 1a, 2a, 2c and 2d of this subpart apply. [40 CFR Part 63.6625(h)] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of emergency and non-emergency operation and of the type of fuel used. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operation, the purpose of the operation (for example: weekly testing, etc.) and records of operational characteristics monitoring. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6655(f)] Federally Enforceable Through Title V Permit
15. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(2)] Federally Enforceable Through Title V Permit
16. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT B

Previous Title V Operating Permit

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# *San Joaquin Valley*

## *Air Pollution Control District*

**FACILITY:** N-7172-0-3

**EXPIRATION DATE:** 09/30/2025

### **FACILITY-WIDE REQUIREMENTS**

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: WALNUT ENERGY CENTER AUTHORITY  
Location: 600 S WASHINGTON ROAD, TURLOCK, CA 95380  
N-7172-0-3 : Jan 22 2025 4:15PM -- AVILAG

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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report beginning every November 1, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. Facilities N-2246 and N-7172 are included in the same stationary source. [District Rule 2201] Federally Enforceable Through Title V Permit

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

# *San Joaquin Valley*

## *Air Pollution Control District*

**PERMIT UNIT:** N-7172-1-5

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #1 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-2

### **PERMIT UNIT REQUIREMENTS**

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1. The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater except for up to three minutes in any hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The gas turbine engine shall be fired exclusively on natural gas with a sulfur content of no greater than 0.36 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rules 2201 and 4801 and 40 CFR Part 60.4330(a)(2), 40 CFR Part 60.4395 and 40 CFR Part 60.7)] Federally Enforceable Through Title V Permit
5. Testing to demonstrate compliance with the fuel sulfur content limit of this permit shall be conducted weekly. Once eight consecutive weekly tests show compliance, the fuel sulfur content testing frequency may be reduced to once every calendar quarter. If a quarterly test shows a violation of the sulfur content limit of this permit then weekly testing shall resume and continue until eight consecutive tests show compliance. Once compliance is shown on eight consecutive weekly tests then testing may return to quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the fuel flow rate to the turbine, NO<sub>x</sub> emission rate, the CO emission rate, the ammonia injection rate, the exhaust temperature both prior to and after the SCR unit, the exhaust oxygen content, and the exhaust flow rate. [District Rules 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO<sub>x</sub>, CO, and O<sub>2</sub>. The CO CEM shall meet the requirements of 40 CFR parts 60 and the NO<sub>x</sub> and O<sub>2</sub> CEMS shall be installed and certified in accordance with the requirements of 40 CFR Part 75. The CEMS shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. Periods where the missing data substitution procedures in Part 75 Subpart D are applied shall be reported as monitor downtime in the District Quarterly CEMS Report. [District Rules 1080, 2201 and 4703 and 40 CFR Part 60.13(a), 40 CFR Part 60.4340(b), 40 CFR Part 60.4345(a) and 40 CFR Part 60.4350(d)] 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.

8. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
9. 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
10. 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
11. 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. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required to validate the hour. [District Rule 1080, 40 CFR Part 60.13(e)(2), 40 CFR Part 60.13(h)(2), 40 CFR Part 60.4345(b) and 40 CFR Part 60.4350(a)] Federally Enforceable Through Title V Permit
12. Owners and operators of a CEMS installed in accordance with the provisions of 40 CFR Part 60 must check zero (or low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span must at a minimum, be adjusted whenever either the 24-hour zero drift or the 24 -hour span drift exceed two times the limit of the applicable performance specification in Appendix B of 40 CFR Part 60. The system must allow the amount of excess zero and span drift to be recorded and quantified whenever specified. [40 CFR 60.13(d)(1)] Federally Enforceable Through Title V Permit
13. Owners and operators must develop and implement a Quality Control (QC) program. As a minimum, each QC program shall include written procedures that describe in detail, complete, step-by-step procedures and operations for calibration of CEMS, calibration drift determination and adjustment, CEMS preventative maintenance, data recording/calculations/reporting, accuracy audit procedures, and corrective action for malfunctioning CEMS. Whenever excessive inaccuracies occur for two consecutive quarters, the source owner or operator must revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies. These written procedures shall be kept on record and shall be made available for inspection by the enforcement agency. [40 CFR Part 60, Appendix F] Federally Enforceable Through Title V Permit
14. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit reports and an Out-of-Control Detail Report, pursuant to 40 CFR Part 60 Subpart F, shall be submitted along with quarterly compliance reports to the District. [District Rule 1080 and 40 CFR Part 60 Appendix F] Federally Enforceable Through Title V Permit
15. 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] Federally Enforceable Through Title V Permit
16. In the event of a breakdown of monitoring equipment, the owner shall notify the District as soon as reasonably possible, but no later than 8 hours after its detection, unless the owner or operator demonstrates to the satisfaction of the APCO that a longer reporting period was necessary, and shall initiate repairs. The owner shall inform the District of the intent to shutdown any monitoring equipment at least 24 hours prior to the event. [District Rule 1080] 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.

17. Startup is defined as the period beginning with turbine initial firing until the unit meets the ppmvd emission limits for steady state operation. Shutdown is defined as the period beginning with initiation of turbine shutdown sequence and ending with cessation of firing of the gas turbine engine. Startup and shutdown events shall not exceed 296 hours per calendar year. Startup emissions must be counted toward each applicable emission limit (lb/day and lb/yr). [District Rule 2201] Federally Enforceable Through Title V Permit
18. The combined startup and shutdown period duration shall not exceed five hours in any one day, commencing at midnight. Emissions during startup and shutdown periods must be counted toward the applicable daily emission limitations. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
19. The unit shall comply with the New Source Review based NO<sub>x</sub> and CO limits of this permit within 5 hours after initial start-up. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
20. The NO<sub>x</sub> emissions during start-up and shutdown periods shall not exceed 119.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The NO<sub>x</sub> emissions during steady state operation shall not exceed 2.0 ppmvd @ 15% O<sub>2</sub> over a 1 hour average (clock hour basis). Steady-state period refers to any periods that is not a start-up or shut down period. A clock hour in a one hour average will commence at the top of the hour. [District Rules 2201 and 4703, 40 CFR Part 60.4320(a) and 40 CFR Part 60.4380(b)(1)] Federally Enforceable Through Title V Permit
22. The combined total NO<sub>x</sub> emissions from start-up, shut down, and steady state operation shall not exceed 444.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Compliance with NO<sub>x</sub> emission limitations during steady state operation shall not be required during short-term excursions limited to a cumulative total of 10 hours per rolling 12-month period. Short-term excursions are defined as 15 minute periods designated by the owner/operator (and approved by the APCO) that are the direct result of transient load conditions, not to exceed four consecutive 15-minute periods, when the 15-minute average NO<sub>x</sub> concentration exceeds 2.0 ppmvd @ 15% O<sub>2</sub>. The maximum 1-hour average NO<sub>x</sub> concentration for periods that include short-term excursions shall not exceed 30 ppmvd @ 15% O<sub>2</sub>. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Examples of transient load conditions include, but are not limited to the following: (1) Initiation/shutdown of combustion turbine inlet air cooling and (2) Rapid combustion turbine load changes. All emissions during short-term excursions shall accrue towards the hourly, daily, and annual emissions limitations of this permit and shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. The CO emissions during start-up and shutdown periods shall not exceed 129.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The CO emissions during steady state operation shall not exceed 4.0 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
27. The combined total CO emissions from start-up, shut down, and steady state operation shall not exceed 558.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
28. The VOC emissions during start-up and shutdown periods shall not exceed 16.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The VOC emissions during steady state operation shall not exceed 1.4 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rule 2201] Federally Enforceable Through Title V Permit
30. The combined total VOC emissions from start-up, shut down, and steady state operation shall not exceed 83.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The PM<sub>10</sub> emissions rate shall not exceed 7.0 lb/hour and 168.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

32. The SO<sub>x</sub> emission rate shall not exceed 1.05 lb/hour and 25.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Ammonia (NH<sub>3</sub>) emissions shall not exceed 10 ppmvd @ 15% O<sub>2</sub> over a 24 hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Compliance with ammonia emission limit shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation:  $(\text{ppmvd @ 15\% O}_2) = ((a - (b \times c / 1,000,000)) \times (1,000,000 / b)) \times d$ , 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 NO<sub>x</sub> concentration ppmvd @ 15% O<sub>2</sub> 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% O<sub>2</sub>. 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]
35. The annual emissions from this unit shall not exceed 99,991 lb/year for CO and 17,404 lb/year for VOC. [District Rule 2201] Federally Enforceable Through Title V Permit
36. The combined quarterly NO<sub>x</sub> emissions from permit units N-7172-1 and N-7172-2 shall not exceed 35,000 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The combined annual NO<sub>x</sub> emissions from permit units N-7172-1 and N-7172-2 shall not exceed 140,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The combined quarterly CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 49,996 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined annual CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 199,982 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. 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
41. Daily emissions will 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 will commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions total to determine compliance with annual emission limit will be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing to demonstrate compliance with the NO<sub>x</sub> (ppmvd), CO (ppmvd), VOC (ppmvd), PM<sub>10</sub> (lb/hour), and NH<sub>3</sub> (ppmvd) emission limits shall be conducted at least once every twelve months. [District Rule 2201, 4001 and 4703] Federally Enforceable Through Title V Permit
43. Source testing to measure startup NO<sub>x</sub>, CO, and VOC mass emission rates shall be conducted for one of the gas turbines (N-7172-1 or N-7172-2) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR Part 60, Appendix B. If CEM data is not certified to determine compliance with NO<sub>x</sub> and CO startup emission limits, then source testing to measure startup NO<sub>x</sub> and CO mass emission rates shall be conducted at least once every 12 months. [District Rule 2201 and 4001] Federally Enforceable Through Title V Permit
44. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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45. Source testing shall be witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
46. The results of each source test shall be received by the District no later than 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
47. NOx emissions (referenced as NO2) shall be determined using EPA Method 7E, EPA Method 20, or CARB 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, 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
48. 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
49. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081, 2201, and 4703] Federally Enforceable Through Title V Permit
50. Source testing to measure concentrations of PM10 shall be conducted using EPA methods 201 and 202, or EPA methods 201A and 202, or CARB method 501 in conjunction with CARB method 5. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
51. Ammonia (NH3) emissions shall be determined using BAAQMD Method ST-1B. [District Rules 1081 and 4102]
52. 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] Federally Enforceable Through Title V Permit
53. If necessary, testing for fuel sulfur content shall be conducted utilizing ASTM Method D 3246, ASTM Method D1072, ASTM Method D4468, ASTM Method D5504 or ASTM Method D3246. [District Rules 1081, 4001 and 40 CFR Part 75, Subpart D] Federally Enforceable Through Title V Permit
54. 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 Rule 1081 and 4001] Federally Enforceable Through Title V Permit
55. A violation of NOx and CO emission standards measured and recorded by the CEMs shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
56. The permittee shall maintain the following records: the date, time and duration of any malfunction of the continuous monitoring equipment; dates of performance testing; dates of evaluations, calibrations, checks, and adjustments of the continuous monitoring equipment; date and time period which a continuous monitoring system or monitoring device was inoperative, maintenance of CEM's, and emission measurements. [District Rules 2201, 4703, 1080, 7.3 and 40 CFR Part 60 Subpart KKKK] Federally Enforceable Through Title V Permit
57. The permittee shall maintain a daily record that includes the actual turbine start-up and stop times (local time), total hours of operation, and the quantity and type of fuel used. [District Rule 4703] Federally Enforceable Through Title V Permit
58. The permittee shall maintain records of the date, time and duration of each bypass transition period and each primary re-ignition period. [District Rule 4703] Federally Enforceable Through Title V Permit
59. The permittee shall maintain records of the date and duration of each start-up and shutdown period. [District Rule 4703] Federally Enforceable Through Title V Permit
60. The permittee shall retain records of the cumulative annual NOx, CO, and VOC emissions. The record shall be updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
61. The permittee shall maintain hourly records of NOx, CO and ammonia concentrations (ppmv @ 15% O2). [District Rules 2201 and 4201] 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.

62. The permittee shall submit a written report for each calendar quarter to the APCO. The report shall be received by the District within 30 days of the end of the quarter and shall include: time intervals and the magnitude of excess emissions, the nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant/source category in question; time and date of each period during which a continuous monitoring system was inoperative except for zero and span checks and the nature of system repairs and adjustments; a negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR Part 60.4375(a), 40 CFR Part 60.4395 and 40 CFR Part 60.7(c-d)] Federally Enforceable Through Title V Permit
63. 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 2201] Federally Enforceable Through Title V Permit
64. 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 Part 72] Federally Enforceable Through Title V Permit
65. 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 Part 75] Federally Enforceable Through Title V Permit
66. 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 Part 75] Federally Enforceable Through Title V Permit
67. 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 Part 73] Federally Enforceable Through Title V Permit
68. 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 Part 77] Federally Enforceable Through Title V Permit
69. 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 Part 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR Part 72 and 40 CFR Part 75] Federally Enforceable Through Title V Permit
70. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR Part 72] Federally Enforceable Through Title V Permit
71. 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 Part 73] Federally Enforceable Through Title V Permit
72. 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 Parts 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 Part 72] Federally Enforceable Through Title V Permit
73. 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 Part 77] 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.

74. 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 Part 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 Part 72] Federally Enforceable Through Title V Permit
75. 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 Part 75] Federally Enforceable Through Title V Permit
76. 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 Part 75] Federally Enforceable Through Title V Permit

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

**PERMIT UNIT:** N-7172-2-5

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #2 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-1

## **PERMIT UNIT REQUIREMENTS**

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1. The gas turbine engine and generator lube oil vents shall be equipped with mist eliminators. Visible emissions from lube oil vents shall not exhibit opacity of 5% or greater except for up to three minutes in any hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The gas turbine engine shall be fired exclusively on natural gas with a sulfur content of no greater than 0.36 grain of sulfur compounds (as S) per 100 dry scf of natural gas. [District Rules 2201 and 4801 and 40 CFR Part 60.4330(a)(2), 40 CFR Part 60.4395 and 40 CFR Part 60.7)] Federally Enforceable Through Title V Permit
5. Testing to demonstrate compliance with the fuel sulfur content limit of this permit shall be conducted weekly. Once eight consecutive weekly tests show compliance, the fuel sulfur content testing frequency may be reduced to once every calendar quarter. If a quarterly test shows a violation of the sulfur content limit of this permit then weekly testing shall resume and continue until eight consecutive tests show compliance. Once compliance is shown on eight consecutive weekly tests then testing may return to quarterly. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the fuel flow rate to the turbine, NO<sub>x</sub> emission rate, the CO emission rate, the ammonia injection rate, the exhaust temperature both prior to and after the SCR unit, the exhaust oxygen content, and the exhaust flow rate. [District Rules 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
7. The exhaust stack shall be equipped with a continuous emissions monitor (CEM) for NO<sub>x</sub>, CO, and O<sub>2</sub>. The CO CEM shall meet the requirements of 40 CFR parts 60 and the NO<sub>x</sub> and O<sub>2</sub> CEMS shall be installed and certified in accordance with the requirements of 40 CFR Part 75. The CEMS shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions. Periods where the missing data substitution procedures in Part 75 Subpart D are applied shall be reported as monitor downtime in the District Quarterly CEMS Report. [District Rules 1080, 2201 and 4703 and 40 CFR Part 60.13(a), 40 CFR Part 60.4340(b), 40 CFR Part 60.4345(a) and 40 CFR Part 60.4350(d)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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8. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
9. 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
10. 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
11. 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. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required to validate the hour. [District Rule 1080, 40 CFR Part 60.13(e)(2), 40 CFR Part 60.13(h)(2), 40 CFR Part 60.4345(b) and 40 CFR Part 60.4350(a)] Federally Enforceable Through Title V Permit
12. Owners and operators of a CEMS installed in accordance with the provisions of 40 CFR Part 60 must check zero (or low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span must at a minimum, be adjusted whenever either the 24-hour zero drift or the 24 -hour span drift exceed two times the limit of the applicable performance specification in Appendix B of 40 CFR Part 60. The system must allow the amount of excess zero and span drift to be recorded and quantified whenever specified. [40 CFR 60.13(d)(1)] Federally Enforceable Through Title V Permit
13. Owners and operators must develop and implement a Quality Control (QC) program. As a minimum, each QC program shall include written procedures that describe in detail, complete, step-by-step procedures and operations for calibration of CEMS, calibration drift determination and adjustment, CEMS preventative maintenance, data recording/calculations/reporting, accuracy audit procedures, and corrective action for malfunctioning CEMS. Whenever excessive inaccuracies occur for two consecutive quarters, the source owner or operator must revise the current written procedures or modify or replace the CEMS to correct the deficiency causing the excessive inaccuracies. These written procedures shall be kept on record and shall be made available for inspection by the enforcement agency. [40 CFR Part 60, Appendix F] Federally Enforceable Through Title V Permit
14. In accordance with 40 CFR, Part 60, Appendix F, 5.1, cylinder gas audits (CGA) or relative accuracy audits (RAA) of continuous emission monitors shall be conducted quarterly, except during quarters in which a relative accuracy test audit (RATA) is performed. Audit reports and an Out-of-Control Detail Report, pursuant to 40 CFR Part 60 Subpart F, shall be submitted along with quarterly compliance reports to the District. [District Rule 1080 and 40 CFR Part 60 Appendix F] Federally Enforceable Through Title V Permit
15. 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] Federally Enforceable Through Title V Permit
16. In the event of a breakdown of monitoring equipment, the owner shall notify the District as soon as reasonably possible, but no later than 8 hours after its detection, unless the owner or operator demonstrates to the satisfaction of the APCO that a longer reporting period was necessary, and shall initiate repairs. The owner shall inform the District of the intent to shutdown any monitoring equipment at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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17. Startup is defined as the period beginning with turbine initial firing until the unit meets the ppmvd emission limits for steady state operation. Shutdown is defined as the period beginning with initiation of turbine shutdown sequence and ending with cessation of firing of the gas turbine engine. Startup and shutdown events shall not exceed 296 hours per calendar year. Startup emissions must be counted toward each applicable emission limit (lb/day and lb/yr). [District Rule 2201] Federally Enforceable Through Title V Permit
18. The combined startup and shutdown period duration shall not exceed five hours in any one day, commencing at midnight. Emissions during startup and shutdown periods must be counted toward the applicable daily emission limitations. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
19. The unit shall comply with the New Source Review based NO<sub>x</sub> and CO limits of this permit within 5 hours after initial start-up. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
20. The NO<sub>x</sub> emissions during start-up and shutdown periods shall not exceed 119.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The NO<sub>x</sub> emissions during steady state operation shall not exceed 2.0 ppmvd @ 15% O<sub>2</sub> over a 1 hour average (clock hour basis). Steady-state period refers to any periods that is not a start-up or shut down period. A clock hour in a one hour average will commence at the top of the hour. [District Rules 2201 and 4703, 40 CFR Part 60.4320(a) and 40 CFR Part 60.4380(b)(1)] Federally Enforceable Through Title V Permit
22. The combined total NO<sub>x</sub> emissions from start-up, shut down, and steady state operation shall not exceed 444.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Compliance with NO<sub>x</sub> emission limitations during steady state operation shall not be required during short-term excursions limited to a cumulative total of 10 hours per rolling 12-month period. Short-term excursions are defined as 15 minute periods designated by the owner/operator (and approved by the APCO) that are the direct result of transient load conditions, not to exceed four consecutive 15-minute periods, when the 15-minute average NO<sub>x</sub> concentration exceeds 2.0 ppmvd @ 15% O<sub>2</sub>. The maximum 1-hour average NO<sub>x</sub> concentration for periods that include short-term excursions shall not exceed 30 ppmvd @ 15% O<sub>2</sub>. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Examples of transient load conditions include, but are not limited to the following: (1) Initiation/shutdown of combustion turbine inlet air cooling and (2) Rapid combustion turbine load changes. All emissions during short-term excursions shall accrue towards the hourly, daily, and annual emissions limitations of this permit and shall be included in all calculations of hourly, daily, and annual mass emission rates as required by this permit. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. The CO emissions during start-up and shutdown periods shall not exceed 129.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The CO emissions during steady state operation shall not exceed 4.0 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
27. The combined total CO emissions from start-up, shut down, and steady state operation shall not exceed 558.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
28. The VOC emissions during start-up and shutdown periods shall not exceed 16.0 lb/hour. [District Rule 2201] Federally Enforceable Through Title V Permit
29. The VOC emissions during steady state operation shall not exceed 1.4 ppmvd @ 15% O<sub>2</sub> over a 3 hour rolling average. Steady-state period refers to any periods that is not a start-up or shut down period. [District Rule 2201] Federally Enforceable Through Title V Permit
30. The combined total VOC emissions from start-up, shut down, and steady state operation shall not exceed 83.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The PM<sub>10</sub> emissions rate shall not exceed 7.0 lb/hour and 168.0 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

32. The SO<sub>x</sub> emission rate shall not exceed 1.05 lb/hour and 25.2 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
33. Ammonia (NH<sub>3</sub>) emissions shall not exceed 10 ppmvd @ 15% O<sub>2</sub> over a 24 hour rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
34. Compliance with ammonia emission limit shall be demonstrated utilizing one of the following procedures: 1) calculate the daily ammonia emissions using the following equation:  $(\text{ppmvd @ 15\% O}_2) = ((a - (b \times c / 1,000,000)) \times (1,000,000 / b)) \times d$ , 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 NO<sub>x</sub> concentration ppmvd @ 15% O<sub>2</sub> 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% O<sub>2</sub>. 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]
35. The annual emissions from this unit shall not exceed 99,991 lb/year for CO and 17,404 lb/year for VOC. [District Rule 2201] Federally Enforceable Through Title V Permit
36. The combined quarterly NO<sub>x</sub> emissions from permit units N-7172-1 and N-7172-2 shall not exceed 35,000 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
37. The combined annual NO<sub>x</sub> emissions from permit units N-7172-1 and N-7172-2 shall not exceed 140,000 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
38. The combined quarterly CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 49,996 lb/quarter. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined annual CO emissions from permit units N-7172-1 and N-7172-2 shall not exceed 199,982 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
40. Each one hour period shall commence on the hour. Each one hour period in a three hour rolling average will commence on the hour. The three hour average will be compiled from the three most recent one hour periods. 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
41. Daily emissions will 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 will commence at the beginning of the first day of the month. The twelve consecutive month rolling emissions total to determine compliance with annual emission limit will be compiled from the twelve most recent calendar months. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Source testing to demonstrate compliance with the NO<sub>x</sub> (ppmvd), CO (ppmvd), VOC (ppmvd), PM<sub>10</sub> (lb/hour), and NH<sub>3</sub> (ppmvd) emission limits shall be conducted at least once every twelve months. [District Rule 2201, 4001 and 4703] Federally Enforceable Through Title V Permit
43. Source testing to measure startup NO<sub>x</sub>, CO, and VOC mass emission rates shall be conducted for one of the gas turbines (N-7172-1 or N-7172-2) at least once every seven years. CEM relative accuracy shall be determined during startup source testing in accordance with 40 CFR Part 60, Appendix B. If CEM data is not certified to determine compliance with NO<sub>x</sub> and CO startup emission limits, then source testing to measure startup NO<sub>x</sub> and CO mass emission rates shall be conducted at least once every 12 months. [District Rule 2201 and 4001] Federally Enforceable Through Title V Permit
44. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

45. Source testing shall be witnessed or authorized by District personnel. [District Rule 1081] Federally Enforceable Through Title V Permit
46. The results of each source test shall be received by the District no later than 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
47. NO<sub>x</sub> emissions (referenced as NO<sub>2</sub>) shall be determined using EPA Method 7E, EPA Method 20, or CARB 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, 2201, 4001, and 4703] Federally Enforceable Through Title V Permit
48. 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
49. CO emissions shall be determined using EPA method 10 or EPA method 10B. [District Rules 1081, 2201, and 4703] Federally Enforceable Through Title V Permit
50. Source testing to measure concentrations of PM<sub>10</sub> shall be conducted using EPA methods 201 and 202, or EPA methods 201A and 202, or CARB method 501 in conjunction with CARB method 5. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
51. Ammonia (NH<sub>3</sub>) emissions shall be determined using BAAQMD Method ST-1B. [District Rules 1081 and 4102]
52. 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] Federally Enforceable Through Title V Permit
53. If necessary, testing for fuel sulfur content shall be conducted utilizing ASTM Method D 3246, ASTM Method D1072, ASTM Method D4468, ASTM Method D5504 or ASTM Method D3246. [District Rules 1081, 4001 and 40 CFR Part 75, Subpart D] Federally Enforceable Through Title V Permit
54. 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 Rule 1081 and 4001] Federally Enforceable Through Title V Permit
55. A violation of NO<sub>x</sub> and CO emission standards measured and recorded by the CEMs shall be reported by the operator to the APCO within 96 hours. [District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
56. The permittee shall maintain the following records: the date, time and duration of any malfunction of the continuous monitoring equipment; dates of performance testing; dates of evaluations, calibrations, checks, and adjustments of the continuous monitoring equipment; date and time period which a continuous monitoring system or monitoring device was inoperative, maintenance of CEM's, and emission measurements. [District Rules 2201, 4703, 1080, 7.3 and 40 CFR Part 60 Subpart KKKK] Federally Enforceable Through Title V Permit
57. The permittee shall maintain a daily record that includes the actual turbine start-up and stop times (local time), total hours of operation, and the quantity and type of fuel used. [District Rule 4703] Federally Enforceable Through Title V Permit
58. The permittee shall maintain records of the date, time and duration of each bypass transition period and each primary re-ignition period. [District Rule 4703] Federally Enforceable Through Title V Permit
59. The permittee shall maintain records of the date and duration of each start-up and shutdown period. [District Rule 4703] Federally Enforceable Through Title V Permit
60. The permittee shall retain records of the cumulative annual NO<sub>x</sub>, CO, and VOC emissions. The record shall be updated monthly. [District Rule 2201] Federally Enforceable Through Title V Permit
61. The permittee shall maintain hourly records of NO<sub>x</sub>, CO and ammonia concentrations (ppmv @ 15% O<sub>2</sub>). [District Rules 2201 and 4201] 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.

62. The permittee shall submit a written report for each calendar quarter to the APCO. The report shall be received by the District within 30 days of the end of the quarter and shall include: time intervals and the magnitude of excess emissions, the nature and cause of excess emissions (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant/source category in question; time and date of each period during which a continuous monitoring system was inoperative except for zero and span checks and the nature of system repairs and adjustments; a negative declaration when no excess emissions occurred. [District Rule 1080 and 40 CFR Part 60.4375(a), 40 CFR Part 60.4395 and 40 CFR Part 60.7(c-d)] Federally Enforceable Through Title V Permit
63. 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 2201] Federally Enforceable Through Title V Permit
64. 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 Part 72] Federally Enforceable Through Title V Permit
65. 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 Part 75] Federally Enforceable Through Title V Permit
66. 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 Part 75] Federally Enforceable Through Title V Permit
67. 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 Part 73] Federally Enforceable Through Title V Permit
68. 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 Part 77] Federally Enforceable Through Title V Permit
69. 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 Part 72.6(a)(3) that is not a substitution or compensating unit. [40 CFR Part 72 and 40 CFR Part 75] Federally Enforceable Through Title V Permit
70. Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program. [40 CFR Part 72] Federally Enforceable Through Title V Permit
71. 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 Part 73] Federally Enforceable Through Title V Permit
72. 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 Parts 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 Part 72] Federally Enforceable Through Title V Permit
73. 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 Part 77] 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.

74. 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 Part 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 Part 72] Federally Enforceable Through Title V Permit
75. 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 Part 75] Federally Enforceable Through Title V Permit
76. 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 Part 75] 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-7172-3-3

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

68,500 GPM MECHANICAL DRAFT COOLING TOWER WITH 5 CELLS SERVED BY A HIGH EFFICIENCY DRIFT ELIMINATOR

### **PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good 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
3. No hexavalent chromium containing compounds shall be added to cooling tower circulating water. [District Rule 7012] Federally Enforceable Through Title V Permit
4. Drift eliminator drift rate shall not exceed 0.0005%. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM10 emissions shall not exceed 30.8 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Compliance with the PM10 emission limit shall be demonstrated as follows:  $PM10 \text{ lb/day} = \text{Circulating Water Recirculation rate (gal/day)} \times 8.34 \text{ lb/gal} \times \text{Total Dissolved Solids Concentration in the blowdown water (ppm)} \times \text{Design Drift Rate (\%)}$ . [District Rule 2201] Federally Enforceable Through Title V Permit
7. Compliance with PM10 emission limit shall be determined by blowdown water sample analysis by independent laboratory every calendar quarter. [District Rule 1081] 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-7172-4-3

**EXPIRATION DATE:** 09/30/2025

**EQUIPMENT DESCRIPTION:**

300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP

### **PERMIT UNIT REQUIREMENTS**

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1. The exhaust stack shall not be fitted with a rain cap, or any other similar device, that impedes upward vertical exhaust flow. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6625(f)] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, San Joaquin County Rule 407 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. The emissions from the engine shall not exceed any of the following: 5.2 grams NOx/hp-hr, 0.27 grams CO/hp-hr, or 0.15 grams VOC/hp-hr. [District Rule 2201 and 40 CFR Part 60.4205] Federally Enforceable Through Title V Permit
6. The PM10 emissions from the engine shall not exceed 0.09 grams/hp-hr based on U.S EPA certification testing using test procedure ISO 8178. [District Rules 2201 and 4102, 17 CCR 93115 and 40 CFR Part 60.4205] Federally Enforceable Through Title V Permit
7. The engine shall be operated and maintained in accordance with manufacturer's emission related written instructions and in a manner consistent with safety and good air pollution control practice for minimizing emissions. Alternatively, the facility may develop a plan that provides maintenance that is consistent with good air pollution control practice for minimizing emissions. [District Rule 4702, 40 CFR Part 63.6605(b), 40 CFR Part 63.6625(e)(3), 40 CFR Part 63.6640(a) and 40 CFR Part 63 Subpart ZZZZ Table 6] Federally Enforceable Through Title V Permit
8. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 2201, 4701, 4702, 17 CCR 93115 and 40 CFR Part 63.6640(f)] Federally Enforceable Through Title V Permit
9. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. The motor oil and the oil filter shall be changed at least every 500 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) or (j) in order to extend the specified oil change requirement specified in Table 2d of this subpart. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. The facility operator shall report any failure to perform this management practice on the schedule required. The report shall include the federal, state or local law under which the risk was deemed unacceptable. [40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
11. The air cleaner shall be inspected at least every 1,000 hours of operation or annually, whichever comes first. The air filter shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. The facility operator shall report any failure to perform this management practice on the schedule required. The report shall include the federal, state or local law under which the risk was deemed unacceptable. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
12. All belts and hoses shall be inspected at least once every 500 hours of operation or annually, whichever comes first. The belts and hoses shall be replaced as necessary. If this deadline passes while the unit is operating for an emergency, the maintenance or inspection may be delayed until the emergency is over. The facility operator shall report any failure to perform this management practice on the schedule required. The report shall include the federal, state or local law under which the risk was deemed unacceptable. [District Rule 40 CFR Part 63 Subpart ZZZZ - Table 2d] Federally Enforceable Through Title V Permit
13. The permittee shall 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, after which time, the emission standards applicable to all times other than startup in tables 1a, 2a, 2c and 2d of this subpart apply. [40 CFR Part 63.6625(h)] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of emergency and non-emergency operation and of the type of fuel used. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operation, the purpose of the operation (for example: weekly testing, etc.) and records of operational characteristics monitoring. [District Rule 4702, 17 CCR 93115 and 40 CFR Part 63.6655(f)] Federally Enforceable Through Title V Permit
15. The facility shall maintain records of all inspections and maintenance of the engine. [40 CFR Part 63.6655(e)(2)] Federally Enforceable Through Title V Permit
16. All records shall be maintained for a period of at least 5 years and shall be made available to the District, EPA or CARB upon request. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

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

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# ATTACHMENT C

## Detailed Summary List of Facility Permits

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**Detailed Facility Report**  
For Facility=7172  
Sorted by Facility Name and Permit Number

<b>WALNUT ENERGY CENTER AUTHORITY</b> <b>600 S WASHINGTON ROAD</b> <b>TURLOCK, CA 95380</b>	FAC #	<b>N 7172</b>	TYPE:	<b>TitleV</b>	EXPIRE ON:	09/30/2025
	STATUS:	<b>A</b>	TOXIC ID:	<b>70170</b>	AREA:	7 /
	TELEPHONE:				INSP. DATE:	06/25

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-7172-1-5	134,000 KW	3020-08B H	1	15,843.00	15,843.00	A	84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #1 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #1 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-2
N-7172-2-5	134,000 KW	3020-08B H	1	15,843.00	15,843.00	A	84 MW NOMINALLY RATED COMBINED-CYCLE POWER GENERATING SYSTEM #2 CONSISTING OF A 1,047 MMBTU/HR GENERAL ELECTRIC FRAME 7EA NATURAL GAS-FIRED COMBUSTION TURBINE GENERATOR WITH DRY LOW NOX COMBUSTOR, AN INLET AIR FILTRATION AND EVAPORATIVE COOLING SYSTEM, A SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, AN OXIDATION CATALYST, HEAT RECOVERY STEAM GENERATOR #2 (HRSG) AND A 100 MW NOMINALLY RATED STEAM TURBINE SHARED WITH PERMIT UNIT N-7172-1
N-7172-3-3	Electric Generation Component	999-99	1	0.00	0.00	A	68,500 GPM MECHANICAL DRAFT COOLING TOWER WITH 5 CELLS SERVED BY A HIGH EFFICIENCY DRIFT ELIMINATOR
N-7172-4-3	Electric Generation Component	3020-10 C	1	290.00	290.00	A	300 HP JOHN DEERE COMPANY MODEL JW6H-UF40 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIRE PUMP

Number of Facilities Reported: 1