

July 12, 2022

Mr. Robert Rankin
South Kern Industrial Center LLC
2653 Santiago Rd
Taft, CA 93268

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: S-4212
Project Number: S-1203712

Dear Mr. Rankin:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for South Kern Industrial Center LLC at 2653 Santiago Rd in Taft, California.

The notice of preliminary decision for this project has been posted on the District's website (www.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: Gerardo Rios, EPA (w/enclosure) via EPS

Samir Sheikh
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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Proposed Title V Permit Renewal Evaluation
South Kern Industrial Center LLC
S-4212**

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TITLE V PERMIT RENEWAL EVALUATION
Biosolids Composting Facility

Engineer: GaEun Lee
Date: June 12, 2022

Facility Number: S-4212
Facility Name: South Kern Industrial Center LLC
Mailing Address: 2653 Santiago Rd
Taft, CA 93268

Contact Name: Robert Rankin
Phone: (661) 765-2202

Responsible Official: Robert Rankin
Title: Site Manager

Project # : S-1203712
Deemed Complete: August 31, 2020

I. PROPOSAL

South Kern Industrial Center LLC was issued its last renewed Title V permit on September 12, 2016. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

II. FACILITY LOCATION

South Kern Industrial Center LLC is located at 2653 Santiago Rd in Taft, 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 2201, New and Modified Stationary Source Review Rule (amended February 18, 2016 – non-SIP version ⇒ amended August 15, 2019 – non-SIP version)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001 ⇒ amended August 15, 2019)
- District Rule 4601, Architectural Coatings (amended December 17, 2009 – SIP version ⇒ amended April 16, 2020 – non-SIP version)
- District Rule 4702, Internal Combustion Engines (amended November 14, 2013 – SIP version ⇒ amended August 19, 2021 – non-SIP version)
- 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (amended December 4, 2020)
- 40 CFR Part 64, Compliance Assurance Monitoring (amended October 22, 1997)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (amended August 11, 2011 ⇒ amended March 24, 2021)

- 40 CFR Part 82, Subpart F, Recycling and Emission Reduction (amended June 18, 2008 ⇒ amended April 10, 2020)

B. Rules Removed

- Fresno County Rule 110, Equipment Breakdown (SIP approved 8/22/1977 ⇒ District resolution to rescind from SIP 2/17/2022)
- Kern County Rule 111, Equipment Breakdown (SIP approved 10/24/1980 ⇒ District resolution to rescind from SIP 2/17/2022)
- Kings County Rule 111, Equipment Breakdown (SIP approved, last amended 6/18/1982 ⇒ District resolution to rescind from SIP 2/17/2022)
- Madera County Rule 113, Equipment Breakdown (SIP approved 11/18/1983 ⇒ District resolution to rescind from SIP 2/17/2022)
- Stanislaus County Rule 110, Equipment Breakdown (SIP approved 6/1/1983 ⇒ District resolution to rescind from SIP 2/17/2022)
- Tulare County Rule 111, Equipment Breakdown (SIP approved 8/22/1977 ⇒ District resolution to rescind from SIP 2/17/2022)

C. Rules Added

There are no applicable rules that were added since the last Title V renewal.

D. Rules Not Updated

- District Rule 1070, Inspections (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 2020, Exemptions (amended December 18, 2014)
- 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 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4565, Biosolids, Animal Manure, and Poultry Litter Operations (adopted March 15, 2007)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- District Rule 8011, Fugitive Dust 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 8051, Open Area (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Areas (amended September 16, 2004)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos (amended July 20, 2004)

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

- Title 17 California Code of Regulations (CCR) Section 93116, Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (amended November 30, 2018)

Permit unit S-4212-8, a transportable diesel-fired engine powering a trommel screen with a stacking conveyor, is subject to the Title 17 CCR 93116.

Section 93116.3(a) contains fuel requirements. This engine meets compliance with this section by using CARB certified diesel fuel. The rule reference of condition #5 on the draft permit S-4212-8-2 have been revised to include the reference to this rule.

Section 93116.3(b) contains the diesel PM standards. The engine must be certified to meet a federal or California standard for newly manufactured engines pursuant to 40 CFR Part 89, Part 86, or the equivalent categories in Title 13 of the California Code of Regulations. The engine is a Tier 4 final certified engine and meets the requirements of this section.

The rest of this section applies to engine fleets and are not applicable to this engine.

B. Rules Not Updated

- District Rule 1100, Equipment Breakdown (amended December 17,1992)

This rule defines a breakdown condition and the procedures to follow if one occurs. The following conditions are based on this rule.

Permit	Conditions
S-4212-0-2	1, 2, and 11

However, condition #11 is also required to demonstrate compliance with District Rule 2520, which is federally enforceable. Therefore, Condition #11 of permit S-4212-0-2 is federally enforceable through Title V.

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

The purpose of this rule is to protect the health and safety of the public, and this rule applies to any source operation which emits or may emit air contaminants or other materials. The following conditions are based on this rule:

Permit	Condition
S-4212-0-2	41
S-4212-8-2	7

However, condition #7 of permit unit S-4212-8-2 is also required to demonstrate compliance with District Rule 2201 and 4702, which are federally enforceable. Therefore, condition #7 of permit S-4212-8-2 is federally enforceable through Title V.

C. Rules Removed

- Title 17 California Code of Regulations (CCR) Section 93115, Airborne Toxic Control Measure for Stationary Compression Ignition Engines (adopted February 26, 2004, amended May 19, 2011)

Permit unit S-4212-8, a transportable diesel-fired engine powering a trommel screen with a stacking conveyor, is not subject to the Title 17 CCR 93115. Conditions #3 and 5 of draft permit S-4212-8-2 were revised to remove the reference to this rule.

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 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

In accordance with EPA's State Implementation Plan (SIP) Call, on February 17, 2022, the District rescinded 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 from the San Joaquin Valley SIP. Moreover, the references to Merced County Rule 109 and San Joaquin County Rule 110 will be removed from the permit since the facility is not located within Merced County or San Joaquin County.

Thus, on draft facility-wide PTO S-4212-0-2, all references to county breakdown rules have been removed from conditions #1, 2, and 39, and, as a result, conditions #1 and 2 are no longer Federally Enforceable.

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

District Rule 2201 has been amended since this facility's Title V permit was last 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 equipment description of current PTO S-4212-8-1 was revised to remove language allowing for equivalent equipment to be installed that was inadvertently left on the permit during the implementation of ATC S-4212-8-0 as follows,

TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HFC06 TIER 4F
INTERNAL COMBUSTION ENGINE, ~~OR EQUIVALENT~~, POWERING A
VERMEER MODEL TR626 TROMMEL MILL SCREEN WITH STACKING
CONVEYOR

C. District Rule 2520 - Federally Mandated Operating Permits

District Rule 2520 has been amended since this facility's Title V permit was last renewed. The amendments to this rule were administrative, relating only to the notification procedures for Title V permit modifications that are required to go through a public notice. The amendments to this rule did not have any effect on current permit requirements and will therefore not be addressed further in this evaluation. 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.

D. 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 Table 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 but has not been SIP approved. The stringency analysis in Attachment D shows that the amended rule is as stringent as the SIP approved version of the rule that was adopted in December 17, 2009.

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

- Table of Standards 1 (through 12/31/2010) and Table of Standards 2 (after 1/1/2011) specifying the VOC content of different coatings and colorants have been replaced with Table 1 and Table 2 (effective after 1/1/2022) in Section 5.0.

To ensure compliance with Rule 4601 as amended 4/16/2020, conditions #23, 24, and 25 of the draft facility-wide permit S-4212-0-2 have been revised 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, 6.1 and 6.3]

E. District Rule 4702 - Internal Combustion Engines

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), particulate matter (PM), and sulfur oxides (SO_x) from internal combustion engines. This rule applies to any internal combustion engine rated at 25 brake horsepower or greater. The latest amended version of the rule, which is not SIP approved, requires lowering NO_x and VOC emissions for spark-ignited IC engines, clarifying definitions, and updating test methods. In addition, Particulate Matter Emission Control Requirements were added to the rule as Section 5.8, and as such the purpose of the rule was amended to encompass the new requirements.

S-4212-4-3: 415 BHP DETROIT MODEL 6063MK35 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

The amended sections of this rule are not applicable to exempt engines. This unit remains in compliance with both the SIP Approved and Non-SIP approved versions of this rule.

S-4212-8-2: TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HFC06 TIER 4F INTERNAL COMBUSTION ENGINE POWERING A VERMEER MODEL TR626 TROMMEL MILL SCREEN WITH STACKING CONVEYOR

The recently amended District Rule 4702 would add PM₁₀ emissions requirements that would require this engine to be EPA/CARB certified. As shown in the equipment description, this unit is a Tier 4 Final engine and would meet the Non-SIP approved version of District Rule 4702. Therefore, this unit remains in compliance with both the SIP Approved and Non-SIP approved versions of this rule.

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

The facility has two IC engines under permit: one stationary emergency-standby diesel IC engine (S-4212-4) and one transportable (i.e. mobile) diesel IC engine powering a screen and stacking conveyor (S-4212-8).

This subpart does not apply to transportable (i.e. non-road) IC engines. Therefore, no further discussion is required for S-4212-8.

S-4212-4-3: 415 BHP DETROIT MODEL 6063MK35 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

As a stationary emergency-standby diesel IC engine, S-4212-4 is potentially subject to Subpart ZZZZ but does not have any permit conditions indicating requirements from Subpart ZZZZ. Therefore, the following discussion will focus on determining the applicable requirements, if any, from Subpart ZZZZ.

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

The start-up date for S-4212-4 was February 1, 2007. However, the facility commenced construction on this unit before June 12, 2006 according to permitting records. Therefore, S-4212-4 is an existing stationary reciprocating internal combustion engine (RICE) as defined in Section 63.6590(a)(1)(iii), i.e. commenced construction before June 12, 2006.

Section 63.6595 When do I have to comply with this subpart?

Section 63.6595(a)(6) states upon start-up of a new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, the owner/operator must comply with the applicable emission and operating limitations in this subpart no later than January 18, 2008. Engine S-4212-4 is subject to Subpart ZZZZ as its start-up date was February 1, 2007.

Section 63.6603 What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Section (a) states an existing stationary RICE located at an area source of HAP emissions, must comply with the requirements in Table 2d and the operating limitations in Table 2b.

Conditions #14 through 18 of the draft permit were added to ensure compliance with this section.

§ 63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?

§63.6604(b) states that beginning January 1, 2015, existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), diesel fuel that meets the requirements in 40 CFR 1090.305 must be used for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

The engines in this facility are not allowed to provide electricity to any other entity in case of emergency as listed in sections 63.6640(f)(2)(ii) and (iii); and 63.6640(f)(4)(ii). Therefore, this section does not apply.

§ 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

§63.6612 includes the initial performance tests and other initial compliance demonstrations for existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary RICE located at an area source of HAP emissions. The existing engines at this facility are not subject to the emissions limitations of this subpart. As such, no initial performance tests are required.

§63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

§63.6625(e)(3) states that an existing emergency or black start stationary RICE located at an area source of HAP emissions, the stationary RICE and after-treatment control device (if any) must be operated and maintained according to the manufacturer's emission-related written instructions or a maintenance plan must be developed which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Conditions #10 and 12 of the draft permit were revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

Section (f) states that the owner or operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, must install a non-resettable hour meter if one is not already installed.

Condition #9 of the draft permit was revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

Section (h) states that a new, reconstructed, or existing stationary engine, must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

Condition #13 of the draft permit was added to ensure compliance with this section.

§63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?

§63.6630(a) states that initial compliance with each emission limitation, operating limitation, and other requirement that applies to the engines shall be demonstrated according to Table 5 of this subpart.

Section (b) states during the initial performance test, each operating limitation in Tables 1b and 2b of this subpart shall be established.

Section (c) states that the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645 must be submitted.

The engines at this facility are not subject to the items in Tables 1b, 2b and 5 of this subpart and no initial testing is required. Therefore, no further discussion is required.

§63.6640 How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

§63.6640(a) requires continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply according to methods specified in Table 6 to this subpart must be demonstrated.

- (b) The owner or operator must report each instance in which the engine did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to the source. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If a catalyst is changed, the values of the operating parameters measured during the initial performance test must be reestablished. When the values of the operating parameters are reestablished, a performance test must also be conducted to demonstrate that the required emission limitation applicable to the stationary RICE is being satisfied.
- (e) The owner or operator must also report each instance in which the engine did not meet the requirements in Table 8 to this subpart that apply. A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not need to comply with the requirements in Table 8 to this subpart:
- An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. Any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.
- (f) An emergency stationary RICE must be operated according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited.

If the engine is not operated according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

- (1) There is no time limit on the use of emergency stationary RICE in emergency situations.
- (2) The emergency stationary RICE may be operated for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
- (3) & (4) Emergency stationary RICE located at major sources or area source of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section.

Condition #11 of the draft permit was revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

§63.6645 What notifications must I submit and when?

Per §63.6645(a) the owner or operator must submit all of the notifications applicable in §63.7(b) and (c), §63.8(e), (f)(4) and (f)(6), §63.9(b) through (e), and (g) and (h) by the dates specified for any of the following:

- (1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.
- (2) An existing stationary RICE located at an area source of HAP emissions.
- (3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.
- (4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.
- (5) This requirement does not apply to an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

- (b) As specified in §63.9(b)(2), the stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions with a startup date before the effective date of this subpart, must submit an Initial Notification not later than December 13, 2004, or no later than 120 days after the source becomes subject to this subpart, whichever is later.
- (c) If a new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is started up on or after August 16, 2004, an Initial Notification shall be submitted not later than 120 days after becoming subject to this subpart.
- (d) As specified in §63.9(b)(2), if the owner or operator starts up a stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and is required to submit an initial notification, an Initial Notification shall be submitted not later than July 16, 2008, or no later than 120 days after the source becomes subject to this subpart, whichever is later.
- (e) If the owner or operator starts up a new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and is required to submit an initial notification, an Initial Notification must be submitted not later than 120 days after the source becomes subject to this subpart.
- (f) If required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), the notification should include the information in §63.9(b)(2)(i) through (v), and a statement that the stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).
- (g) If required to conduct a performance test, a Notification of Intent to conduct a performance test shall be submitted at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).
- (h) If required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, a Notification of Compliance Status shall be submitted according to §63.9(h)(2)(ii).
 - (1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, the Notification of Compliance Status must be submitted before the close of business on the 30th day following the completion of the initial compliance demonstration.

- (2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, the Notification of Compliance Status must be submitted, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

The engines at this facility are not subject to emissions or operating limitations in this subpart. However, it is subject to the other management practices in this subpart, and are complying with the applicable requirements of this subpart.

§ 63.6650 What reports must I submit and when?

Per §63.6650 the owner or operator of an engine subject to this subpart,

- (a) Must submit each report in Table 7 of this subpart that applies to the engine.
- (b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), each report must be submitted by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.
- (c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
- (d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where a CMS is not used to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.
- (e) For each deviation from an emission or operating limitation occurring for a stationary RICE where a CMS is used to comply with the emission and operating limitations in this subpart, information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section must be included.

- (f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.
- (g) If a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis is being operated, an annual report must be submitted according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. The data specified in (g)(1) through (g)(3) of this section must be reported.
- (h) If an engine operates as an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), an annual report must be submitted according to the requirements in paragraphs (h)(1) through (3) of this section.

The engines subject to this subpart at this facility do not fall in any category in Table 7. Additionally, this unit is not subject to emissions or operating limitations in this subpart.

§63.6655 What records must I keep?

Per §63.6655(a) if the owner or operator must comply with the emission and operating limitations, the records described in paragraphs (a)(1) through (a)(5) of this section must be kept.

- (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

Condition #22 of the draft permit was revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

Section (e) states that records of the maintenance conducted on the stationary RICE shall be retained in order to demonstrate that stationary RICE and after-treatment control device (if any) is operated and maintained according to the maintenance plan if the stationary RICE is one of the following:

- (1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.
- (2) An existing stationary emergency RICE.
- (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

Condition #21 of the draft permit was revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

Section (f) states that records of the hours of operation of the engine that is recorded through the non-resettable hour meter will be kept for any of the following stationary RICE:

- (1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.
- (2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

Condition #20 of the draft permit was revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

§63.6660 In what form and how long must I keep my records?

§63.6660 specifies duration of time that records must be kept.

(a) Records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) Each record must be readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

Condition #23 of the draft permit was revised to include 40 CFR 63, Subpart ZZZZ in the rule reference to ensure compliance with this section.

G. 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.

Pollutant	Major Source Threshold (lb/year)
NO _x	20,000
SO _x	140,000
PM ₁₀	140,000
CO	200,000
VOC	20,000

S-4212-1-8: BIOSOLIDS AND AMENDMENTS RECEIVING/MIXING OPERATION, INCLUDING AMENDMENT STORAGE AREA, FEED HOPPER WITH WATER SPRAY MISTERS, CONVEYOR DISCHARGING TO AMENDMENT PILES IN MIXING BUILDING, BIOSOLIDS UNLOADING INTO MIXING BUILDING, WITH MIXING BUILDING AND COVERED FEEDSTOCK CONVEYOR VENTED TO MIXING BUILDING BIOFILTER

This permit unit has emission limits for PM₁₀ and VOC. The unit is equipped with an add-on control system in the form of a biofilter which only controls VOC emissions. Therefore, this unit can only be subject to CAM for VOC emissions.

The biofilter reduces VOC emissions by at least 80%. The pre-control potential to emit for this unit will be calculated based on the emission limit of 7.4 lb-VOC/day per current permit requirements. Pre-control emissions are calculated as follows:

$$\begin{aligned}\text{Pre-Control VOC} &= \text{Annual Emission} \div (1 - \text{Control Efficiency}) \\ &= (7.4 \text{ lb-VOC/day} \times 365 \text{ day/year}) \div (1 - 0.8) \\ &= 13,505 \text{ lb-VOC/year}\end{aligned}$$

As demonstrated above the pre-control VOC emissions are less than the major source threshold of 20,000 lb-VOC/year. Therefore, this unit is not subject to CAM.

S-4212-2-8: BIOSOLIDS CO-COMPOSTING OPERATION INCLUDING TWENTY POSITIVELY AERATED STATIC PILE (ASP) COMPOSTING ZONES, EACH WITH A MAINTAINED FINISHED COMPOST BIOFILTER LAYER CAP; INCLUDING BLOWER FANS AND SURFACE SPRINKLER SYSTEM

This permit unit has emission limits for VOC. The unit is equipped with an add-on control system in the form of a biofilter which controls VOC emissions. Therefore, this unit can be subject to CAM for VOC emissions.

The post-control potential to emit for this unit exceeds the major source threshold of 20,000 lb-VOC/year; therefore, the pre-control VOC emissions are also expected to be greater than the major source threshold. Therefore, this unit is subject to CAM. Conditions #34, 35, and 36 of the draft permit ensure compliance with CAM requirements.¹

S-4212-4-3: 415 BHP DETROIT MODEL 6063MK35 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

This permit unit has emission limits for NO_x, SO_x, PM₁₀, CO and VOC pollutants. However, the unit is not equipped with an add-on control. Therefore, this unit is not subject to CAM requirements.

¹ The original CAM compliance determination was performed in the Initial Title V project (S-1094617). In the Initial Title V project, the District noted that the biofilter is not a mechanical system that lends itself to conventional CAM requirements. However, the biofilter is monitored weekly, or monthly, depending on the parameter, through a combination of parameters, e.g. pH, temperature, moisture, discharge pressure, vegetative growth, physical integrity, and odors, that includes provisions for corrective action to ensure optimal function in between source tests. The District and U.S. EPA have accepted the biofilter monitoring requirements listed on permit S-4212-1 (shared with S-4212-2) as meeting the purpose of CAM.

N-4212-8-2: TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HFC06
TIER 4F INTERNAL COMBUSTION ENGINE POWERING A VERMEER
MODEL TR626 TROMMEL MILL SCREEN WITH STACKING CONVEYOR

This permit unit has emission factors for NO_x, SO_x, PM₁₀, CO and VOC. Per CARB Executive Order U-R-004-0523-1 for the John Deere engine, the engine is equipped with a SCR system using urea to control NO_x emissions, and a diesel oxidation catalyst to control PM₁₀ emissions. CAM is not required for SO_x, CO or VOC since there is no add-on control for these pollutants. The uncontrolled emissions of NO_x and PM₁₀ are calculated as follows.

NO_x:

Per the permit requirements the NO_x emission factor is 0.25 g-NO_x/bhp-hr. The SCR system using urea has a NO_x control efficiency between 70% and 90%. For worst case it will be assumed the SCR system has a control efficiency of 90%.

$$\begin{aligned}\text{Uncontrolled PE} &= \text{Emission Factor} \times \text{Horsepower Rating} \times \text{Hours of Operation} \\ &\div (1 - \text{Control Efficiency}) \\ &= 0.25 \text{ g-NO}_x/\text{bhp-hr} \times 125 \text{ bhp} \times 8,760 \text{ hr} \div (1 - 0.90) \times 1 \\ &\text{ lb}/453.6 \text{ g} \\ &= 6,035 \text{ lb-NO}_x/\text{year}\end{aligned}$$

The uncontrolled emissions are less than the CAM threshold of 20,000 lb-NO_x/year. Therefore, CAM requirements are not triggered for NO_x.

PM₁₀:

Per the permit requirements the PM₁₀ emission factor is 0.01 g-PM₁₀/bhp-hr. The diesel oxidation catalyst has a PM₁₀ control efficiency between 20% and 40%. For worst case it will be assumed the SCR system has a control efficiency of 40%.

$$\begin{aligned}\text{Uncontrolled PE} &= \text{Emission Factor} \times \text{Horsepower Rating} \times \text{Hours of Operation} \\ &\div (1 - \text{Control Efficiency}) \\ &= 0.01 \text{ g-PM}_{10}/\text{bhp-hr} \times 125 \text{ bhp} \times 8,760 \text{ hr} \div (1 - 0.40) \times 1 \\ &\text{ lb}/453.6 \text{ g} \\ &= 40 \text{ lb-PM}_{10}/\text{year}\end{aligned}$$

The uncontrolled emissions are less than the CAM threshold of 140,000 lb-PM₁₀/year. Therefore, CAM requirements are not triggered for PM₁₀.

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

The purpose of 40 CFR Part 82 Subpart B 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 included as condition #28 of draft facility-wide permit S-4212-0-2. Therefore, the modifications to this subpart are not addressed any further in this evaluation.

I. 40 CFR Part 82, Subpart F - Recycling and Emissions Reductions

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 maintenance, service, repair, and disposal of appliances and restricting the sale of refrigerants consisting in whole or in part of a class I and class II ozone-depleting substance or their non-exempt substitutes in accordance with Title VI of the Clean Air Act.

This subpart applies to any person maintaining, servicing, or repairing appliances. This subpart also applies to persons disposing of appliances (including small appliances and motor vehicle air conditioners), refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recovery and/or recycling equipment, approved recovery and/or recycling equipment testing organizations, and persons buying, selling, or offering to sell class I, class II, or non-exempt substitute refrigerants.

The amendments to this subpart do not result in a modification to the current permit requirement included as condition #27 of draft facility-wide permit S-4212-0-2. Therefore, the modifications to this subpart are not addressed any further in this evaluation.

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 has not proposed to use any model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

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

C. Obsolete Permit Shields From Existing Permit Requirements

As noted in Section VIII. 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 have been rescinded from the San Joaquin Valley SIP. Also, the facility is not located within Merced County or San Joaquin County, therefore, Merced County Rule 109 and San Joaquin County Rule 110 are not applicable to the facility. Therefore, condition #39 in permit S-4212-0-2 has been revised to remove the permit shield granted for the rules:

- 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) 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] Y

As noted in Section VIII. D, District Rule 4601 was amended on April 16, 2020 but has not been SIP approved. Therefore, condition #40 in permit S-4212-0-2 has been revised to remove the permit shield granted for the rule:

- 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); 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] Y

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
- D. District Rule 4601 Stringency Analysis

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-4212-0-2

EXPIRATION DATE: 02/28/2021

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. {4365} 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. {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. {4368} 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. {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: SOUTH KERN INDUSTRIAL CENTER LLC

Location: 2653 SANTIAGO RD, TAFT, CA 93268

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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. {4372} 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. {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 (4/16/20), unless exempted under section 4.0 of District Rule 4601 (Amended 4/16/20). [District Rule 4601] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (4/16/20) 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 (4/16/20). [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. {4393} 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. {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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
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) 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); 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. {98} No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On January, 31, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-1-8

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

BIOSOLIDS AND AMENDMENTS RECEIVING/MIXING OPERATION, INCLUDING AMENDMENT STORAGE AREA, FEED HOPPER WITH WATER SPRAY MISTERS, CONVEYOR DISCHARGING TO AMENDMENT PILES IN MIXING BUILDING, BIOSOLIDS UNLOADING INTO MIXING BUILDING, WITH MIXING BUILDING AND COVERED FEEDSTOCK CONVEYOR VENTED TO MIXING BUILDING BIOFILTER

PERMIT UNIT REQUIREMENTS

1. Air pollution equipment (blower fans, ducting, biofilter, etc) shall be properly maintained in good operating condition at all times, except for times of maintenance and/or repair allowed by conditions below. [District Rule 2201] Federally Enforceable Through Title V Permit
2. At least one of two biofilter blower fans shall be operating at all times but may be shut down for a total of 48 hours per 6-month time period for the purpose of maintenance and/or repair. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Feedstock mixing shall be performed in the mixing building, and mixing building shall be vented to biofilter. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Conveyors transferring feedstock from mixing building to feedstock pad shall be covered and ventilated to receiving building biofilter. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Biofilter shall be equipped with operational humidifier and sprinkler systems, and shall be used as needed to maintain optimum biofilter media moisture content. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Amendment feed hopper shall be equipped with operational mist type water spray, and used as needed to ensure visible emissions do not exceed 5% opacity for more than 3 minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
7. VOC destruction efficiency across the biofilter serving the mixing building shall not be less than 80%, or total VOC emission rate from mixing building shall not exceed 2 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. NH3 destruction efficiency across the biofilter serving the mixing building shall not be less than 80%, or total NH3 emission rate from mixing building shall not exceed 2 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. There shall be no visible emissions greater than 5% opacity for more than three minutes in any one hour, from receiving/mixing operation amendment truck unloading, feed hopper loading, outdoor conveyor transfer points, or feed stock stacking conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Maximum quantity of biosolids introduced into the feedstock mixers shall not exceed 350,000 wet tons on a rolling 12-month basis. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Maximum quantity of amendment introduced into the feedstock mixing operation shall not exceed 320,000 wet tons on a rolling 12-month basis. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Maximum quantity of feedstock discharged from the mixing operation shall not exceed 6,466 wet tons per 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.

13. Emissions from amendment feed hopper shall not exceed 0.0001 lb-PM10/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Emissions from amendment conveyor transfer points shall not exceed 4.5E-5 lb-PM10/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
15. VOC emissions from the biofilter serving the mixing building shall not exceed 7.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
16. NH3 emissions from the biofilter shall not exceed 0.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Biofilter media shall be maintained such that the pH remains between 5.0 and 8.0, moisture content between 40 and 80% and temperature between 50 and 95 degrees F, as measured at a depth of at least 2 feet below the media surface. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Biofilter discharge surface, for testing and monitoring purposes, shall be divided into sixteen uniformly sized areas (grids). When source testing the biofilter, a minimum of 8 representative grid points shall be used. [District Rule 1070] Federally Enforceable Through Title V Permit
19. Biofilter exhaust blower discharge pressure shall not exceed 5.0 psig. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Biofilter exhaust blower discharge pressure shall be monitored weekly to ensure system pressure is within permitted operating range. [District Rule 1081] Federally Enforceable Through Title V Permit
21. Biofilter moisture, pH and temperature shall be monitored monthly by sampling one central grid location. Samples shall be taken at two depths beneath the surface. Samples shall be analyzed at in-house laboratory within 48 hours of collection. After collection of biofilter media samples, any sample holes shall be re-filled immediately with the excavated material. [District Rule 1081] Federally Enforceable Through Title V Permit
22. Biofilter media shall be "fluffed" or replaced as needed to maintain the exhaust blower discharge pressure within the normal operating range. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Vegetative growth shall not exceed 10% of the total biofilter surface. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Biofilter shall be checked visually at least weekly for compaction, channeling (cracks), vegetative growth or noticeable increase in detectable odors. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Biofilter media temperature shall be monitored weekly by inserting a manual temperature probe into each biofilter grid location, waiting approximately 30 to 90 seconds for the temperature to stabilize, then recording the temperature. [District Rule 1081] Federally Enforceable Through Title V Permit
26. If any biofilter media temperature reading is out of range, then the biofilter moisture and pH shall be tested, and recorded, for the corresponding grid(s). [District Rule 1081] Federally Enforceable Through Title V Permit
27. If any biofilter monitoring parameter is out of range, the applicant shall perform the necessary maintenance to return the media parameter(s) to the permitted range within 1 week of detecting the problem. All grids which tested out of range shall be re-tested within one week. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Demonstration of compliance with biofilter VOC daily emissions limit (DEL) and control efficiency shall be made within 60 days of replacement of spent media which requires more than 50% of the biofilter media to be replaced. If any ASP biofilters are replacing media concurrent with the replacement of the mixing building biofilter media, then the ASP biofilter source testing may be used as representative testing in demonstrating compliance with VOC control efficiency requirement for the mixing building biofilter. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
29. District witnessed source testing of biofilter performed to measure VOC and NH3 inlet concentrations, inlet flowrate, and VOC and NH3 destruction efficiencies across the biofilter, shall be performed by an independent testing laboratory certified for SCAQMD methods 25.3, 207.1, 1.1, 1.2, 2.1, 2.2, 2.3, 3.1 and 4.1. [District Rule 1070] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

30. The following biofilter test methods shall be used: Biofilter temperature - EPA method 170.1, moisture content - TMECC 03.09 (Total solids and moisture at 70+/-5 degrees centigrade), media pH - TMECC 04.11-A (1:5 slurry pH), VOC leaks - EPA Method 21 (VOC leaks), and hydrocarbon analyzer for VOCs calibrated with certified zero and 10 ppmv methane standards. [District Rule 1081] Federally Enforceable Through Title V Permit
31. Operator may use an alternate test method to those listed above for which written approval of the APCO has been obtained. [District Rule 1081] Federally Enforceable Through Title V Permit
32. District shall be notified at least 30 days prior to any compliance source testing, and a source test plan shall be submitted for approval at least 15 days prior to testing. Official test results and field test data from compliance testing shall be submitted within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
33. The following operating parameters shall be documented during times of testing: biofilter exhaust blower discharge pressure and temperature, biofilter air flow, biofilter media temperature (all 16 grids), moisture content and pH (Only two samples of moisture and pH required, samples to be taken at one central location (from at least two feet deep)). Moisture and pH shall also be sampled, and recorded, for every grid in which the temperature is found to be out of the permitted range. [District Rule 1070] Federally Enforceable Through Title V Permit
34. VOC and NH3 samples shall be analyzed by a lab certified by SCAQMD to perform identified SCAQMD test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
35. Records shall be kept of wet tons per day of biosolids fed into the feedstock mixing operation, daily amendment mix ratio, monthly biofilter temperature, moisture and pH readings, weekly biofilter media temperature and exhaust blower discharge pressure readings, associated biofilter grid locations, and annual VOC emissions on a 12 month rolling average. Records shall be kept of visual inspections and actions taken to correct compaction (and/or high biofilter blower fan pressure(s)), channeling, excessive vegetative growth or a noticeable increase in odors, including date of inspection and date actions were taken to correct problem(s). Records shall be kept of dates and hours each biofilter fan is shutdown for maintenance and/or repair. Records shall be retained on-site for a period of at least five years and made readily available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-2-8

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

BIOSOLIDS CO-COMPOSTING OPERATION INCLUDING TWENTY POSITIVELY AERATED STATIC PILE (ASP) COMPOSTING ZONES, EACH WITH A MAINTAINED FINISHED COMPOST BIOFILTER LAYER CAP; INCLUDING BLOWER FANS AND SURFACE SPRINKLER SYSTEM

PERMIT UNIT REQUIREMENTS

1. All materials for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Co-composting shall be performed in positively aerated static piles (+ASPs) with a biofilter layer and an engineered, under pile, grid aeration system. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
3. Water shall be applied as needed to maintain optimum biofilter cap media temperature and moisture content. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
4. Air pollution equipment (variable speed drive blower fans, ducting, etc.) shall be properly maintained in accordance with manufacturer recommendations, except for times of maintenance and/or repair allowed by conditions below. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
5. Mechanical equipment associated with each +ASP may be taken out of service for a total of 48 hours per 6-month time period for the purpose of maintenance and/or repair. [District Rules 2020 and 2201] Federally Enforceable Through Title V Permit
6. Each +ASP shall be covered with at least 24" of finished compost within two days of constructing the +ASP (placing feedstock in that +ASP zone). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
7. The VOC destruction efficiency across each biofilter cap serving the co-compost +ASPs shall not be less than 80%, or, the total VOC emission rate shall not exceed 2 pounds in any one day. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
8. The NH3 destruction efficiency across each biofilter cap serving the co-compost +ASPs shall not be less than 80%, or, the total NH3 emission rate shall not exceed 2 pounds in any one day. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
9. Maximum quantity of feedstock (mixed biosolids and amendments) introduced into co-compost +ASPs shall not exceed 6,466 tons/day nor 670,000 tons/year (based on a rolling 12 months). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
10. VOC emissions from this permit unit (includes all +ASP surfaces with their biofilter caps) shall not exceed 0.23826 b/ton throughput. Throughput is defined as wet ton, as mixed, feedstock introduced into compost ASPs. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
11. VOC emissions from the biofilter caps serving the co-composting zones shall not exceed 1,540.6 lb/day or 159,634 lb/year. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
12. NH3 emissions from the +ASPs shall not exceed 0.2203lb/ton throughput. Throughput is defined as wet ton, as mixed, feedstock introduced into compost +ASPs. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. NH₃ emissions from the biofilter caps serving the co-composting zones shall not exceed 1424.5 lb/day. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
14. Permittee shall implement at least two (2) Rule 4565 class one mitigation measures, in addition to one (1) class two mitigation measures for active composting and one (1) class two mitigation measure for curing composting. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
15. Each biofilter cap aeration fan shall operate as needed to maintain moisture content between 45 and 80% and temperature between 80 and 120 degree F, as measured at an appropriate depth below the media surface. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
16. +ASPs shall have no measurable increase (<0.45 ppmv increase) over background levels of hydrocarbons within three feet of any surface of any +ASP/biofilter caps. Testing shall be performed once per quarter in accordance with the requirements of Rule 4565 section 5.4 using a District approved analyzer. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
17. Every +ASP biofilter cap temperature and moisture shall be monitored monthly by sampling at least one location on each +ASP. Samples shall be taken at two depths beneath the surface. Samples shall be analyzed at in-house laboratory within 48 hours of collection. After collection of biofilter media samples, any sample holes shall be filled immediately with the excavated material. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
18. +ASP biofilter cap surface, for source testing purposes, shall be divided into two rectangular sub-zones uniformly sized areas (two half zones per zone). When source testing the +ASP/biofilter cap, a minimum of four representative test points shall be used testing along diagonal transect lines per sub-zones with six points along the line with testing on the four inner points on the transect line. Testing shall be performed on eight days of the 45 day compost life-cycle (recommended Day 1, 3, 5, 7, 14, 21, 28, 45) for a total of 32 flux samples with an additional 10% QC samples (5% blank samples and 5% replicate samples). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
19. Biofilter media cap shall be maintained at a depth of 18" to 24", as needed, to maintain the effective biofilter layer on the compost surface. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
20. Biofilter caps shall be checked visually at least weekly for compaction, moisture level, channeling (cracks), or noticeable increase in detectable odors. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
21. Biofilter cap media temperature shall be monitored weekly with automatic or manual temperature probe(s) inserted into a minimum of 4 representative test points along an approximate diagonal transect line for each ASP zone. If manual probes are utilized the probe shall remain in place for 30 to 90 seconds to allow the temperature reading to stabilize before recording the temperature. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
22. If any +ASP/biofilter cap media temperature reading is out of range, then the biofilter cap moisture shall be tested, and recorded, for the corresponding zone(s). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
23. If any biofilter cap monitoring parameter is out of range, the applicant shall perform the necessary maintenance to return the media parameter(s) to the permitted range within one week of detecting the problem. All grids which tested out of range shall be re-tested within one week. If any grid is still out of range additional biofilter media shall be added within ten days until the monitoring parameters are documented to be within appropriate operational ranges. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
24. Demonstration of compliance with biofilter cap VOC daily emissions limit (DEL) and control efficiency shall be performed not less than once every two years thereafter. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
25. The following biofilter cap test methods shall be used: biofilter temperature - EPA method 170.1, moisture content - TMECC 03.09 (Total solids and moisture at 70+1 to 5 degrees centigrade), VOC leaks - EPA Method 21 (VOC leaks), and hydrocarbon analyzer for VOCs calibrated with certified zero and 10 ppmv methane standards. [District Rules 2201 and 4565] 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.

26. District witnessed source testing to determine surface VOC concentrations, flowrate, and destruction efficiency across selected +ASP biofilter caps shall be performed by an independent testing laboratory certified for SCAQMD test methods 25.3, and 201.1. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
27. Operator may use an alternate test method to those listed above for which written approval of the APCO has been obtained. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
28. District shall be notified at least 30 days prior to any compliance source testing, and a source test plan shall be submitted for approval at least 15 days prior to testing. Official test results and field test data from compliance testing shall be submitted within 60 days thereafter. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
29. VOC samples shall be analyzed by a lab certified by SCAQMD to perform identified SCAQMD test methods. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
30. Records shall be kept that demonstrate that the facility meets the Rule 4565 class one mitigation measures selected each day that a mitigation measure is performed. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
31. Operator shall maintain an inspection logbook which contains the quarterly VOC hydrocarbon analyzer readings in ppmv for each inspection location (on surface of the +ASP/biofilter cap), along with the date of the inspection. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
32. Records shall be kept of wet tons per day of biosolids fed into the feedstock mixing operation, daily amendment mix ratio, monthly biofilter cap temperature, moisture readings, weekly biofilter cap temperature and blower inlet pressure readings, associated biofilter cap zone locations, and annual VOC emissions on a 12 month rolling average. Records shall be kept of visual inspections and actions taken to correct compaction (and/or high +ASP/biofilter cap blower fan pressure(s)), channeling, excessive vegetative growth or a noticeable increase in odors, including date of inspection and date actions were taken to correct problem(s). Records shall be kept of dates and hours each +ASP fan is taken out of service for maintenance and/or repair. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
33. All records shall be retained on-site for a period of at least five years and made readily available for District inspection upon request. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
34. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64.7] Federally Enforceable Through Title V Permit
35. If the District or EPA determine that a quality improvement plan is required under 40 CFR part 64.7(d)(2), the permittee shall develop and implement the quality improvement plan in accordance with 40 CFR part 64.8. [40 CFR Part 64.8] Federally Enforceable Through Title V Permit
36. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64.9] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-4-3

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

415 BHP DETROIT MODEL 6063MK35 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Emissions from this engine shall not exceed any of the following: NO_x (as NO₂): 5.70 grams/hp-hr, CO: 0.40 grams/hp-hr or VOC: 0.14 grams/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM₁₀ emissions rate shall not exceed 0.08 grams/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 2201 and 4702; 17 CCR 93115; and 40 CFR 63 Subpart ZZZZ] 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.

12. 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 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The permittee shall maintain monthly records that include the type of fuel purchased, the amount of fuel purchased, and the date of fuel purchase. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702, 17 CCR 93115 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. The permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070] Federally Enforceable Through Title V Permit
22. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] 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.

23. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4702; 17 CCR 93115; and 40 CFR 63 Subpart ZZZZ]
Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-8-2

EXPIRATION DATE: 02/28/2021

SECTION: 24 **TOWNSHIP:** 32S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HFC06 TIER 4F INTERNAL COMBUSTION ENGINE
POWERING A VERMEER MODEL TR626 TROMMEL MILL SCREEN WITH STACKING CONVEYOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
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 a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702] Federally Enforceable Through Title V Permit
4. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total daily hours of operation with start and stop times, type of fuel used, annual maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. The engine operating log shall also include the total time engine operates in hours per calendar year. [District Rule 4702] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4702 and 4801; and 17 CCR 93116] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 0.25 g-NOx/bhp-hr, 0.07 g-CO/bhp-hr, or 0.01 g-VOC/bhp-hr. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.01 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102, and 4702] Federally Enforceable Through Title V Permit
8. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: S-4212-0-1

EXPIRATION DATE: 02/28/2021

FACILITY-WIDE REQUIREMENTS

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: SOUTH KERN INDUSTRIAL CENTER LLC

Location: 2653 SANTIAGO RD, TAFT, CA 93268

S-4212-0-1 : May 19 2022 8:43AM -- LEEG

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

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. On January, 31, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-1-7

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

BIOSOLIDS AND AMENDMENTS RECEIVING/MIXING OPERATION, INCLUDING AMENDMENT STORAGE AREA, FEED HOPPER WITH WATER SPRAY MISTERS, CONVEYOR DISCHARGING TO AMENDMENT PILES IN MIXING BUILDING, BIOSOLIDS UNLOADING INTO MIXING BUILDING, WITH MIXING BUILDING AND COVERED FEEDSTOCK CONVEYOR VENTED TO MIXING BUILDING BIOFILTER

PERMIT UNIT REQUIREMENTS

1. Air pollution equipment (blower fans, ducting, biofilter, etc) shall be properly maintained in good operating condition at all times, except for times of maintenance and/or repair allowed by conditions below. [District Rule 2201] Federally Enforceable Through Title V Permit
2. At least one of two biofilter blower fans shall be operating at all times but may be shut down for a total of 48 hours per 6-month time period for the purpose of maintenance and/or repair. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Feedstock mixing shall be performed in the mixing building, and mixing building shall be vented to biofilter. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Conveyors transferring feedstock from mixing building to feedstock pad shall be covered and ventilated to receiving building biofilter. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Biofilter shall be equipped with operational humidifier and sprinkler systems, and shall be used as needed to maintain optimum biofilter media moisture content. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Amendment feed hopper shall be equipped with operational mist type water spray, and used as needed to ensure visible emissions do not exceed 5% opacity for more than 3 minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
7. VOC destruction efficiency across the biofilter serving the mixing building shall not be less than 80%, or total VOC emission rate from mixing building shall not exceed 2 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. NH3 destruction efficiency across the biofilter serving the mixing building shall not be less than 80%, or total NH3 emission rate from mixing building shall not exceed 2 pounds in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. There shall be no visible emissions greater than 5% opacity for more than three minutes in any one hour, from receiving/mixing operation amendment truck unloading, feed hopper loading, outdoor conveyor transfer points, or feed stock stacking conveyor. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Maximum quantity of biosolids introduced into the feedstock mixers shall not exceed 350,000 wet tons on a rolling 12-month basis. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Maximum quantity of amendment introduced into the feedstock mixing operation shall not exceed 320,000 wet tons on a rolling 12-month basis. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Maximum quantity of feedstock discharged from the mixing operation shall not exceed 6,466 wet tons per 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.

13. Emissions from amendment feed hopper shall not exceed 0.0001 lb-PM10/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Emissions from amendment conveyor transfer points shall not exceed 4.5E-5 lb-PM10/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
15. VOC emissions from the biofilter serving the mixing building shall not exceed 7.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
16. NH₃ emissions from the biofilter shall not exceed 0.4 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Biofilter media shall be maintained such that the pH remains between 5.0 and 8.0, moisture content between 40 and 80% and temperature between 50 and 95 degrees F, as measured at a depth of at least 2 feet below the media surface. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Biofilter discharge surface, for testing and monitoring purposes, shall be divided into sixteen uniformly sized areas (grids). When source testing the biofilter, a minimum of 8 representative grid points shall be used. [District Rule 1070] Federally Enforceable Through Title V Permit
19. Biofilter exhaust blower discharge pressure shall not exceed 5.0 psig. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Biofilter exhaust blower discharge pressure shall be monitored weekly to ensure system pressure is within permitted operating range. [District Rule 1081] Federally Enforceable Through Title V Permit
21. Biofilter moisture, pH and temperature shall be monitored monthly by sampling one central grid location. Samples shall be taken at two depths beneath the surface. Samples shall be analyzed at in-house laboratory within 48 hours of collection. After collection of biofilter media samples, any sample holes shall be re-filled immediately with the excavated material. [District Rule 1081] Federally Enforceable Through Title V Permit
22. Biofilter media shall be "fluffed" or replaced as needed to maintain the exhaust blower discharge pressure within the normal operating range. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Vegetative growth shall not exceed 10% of the total biofilter surface. [District Rule 2201] Federally Enforceable Through Title V Permit
24. Biofilter shall be checked visually at least weekly for compaction, channeling (cracks), vegetative growth or noticeable increase in detectable odors. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Biofilter media temperature shall be monitored weekly by inserting a manual temperature probe into each biofilter grid location, waiting approximately 30 to 90 seconds for the temperature to stabilize, then recording the temperature. [District Rule 1081] Federally Enforceable Through Title V Permit
26. If any biofilter media temperature reading is out of range, then the biofilter moisture and pH shall be tested, and recorded, for the corresponding grid(s). [District Rule 1081] Federally Enforceable Through Title V Permit
27. If any biofilter monitoring parameter is out of range, the applicant shall perform the necessary maintenance to return the media parameter(s) to the permitted range within 1 week of detecting the problem. All grids which tested out of range shall be re-tested within one week. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Demonstration of compliance with biofilter VOC daily emissions limit (DEL) and control efficiency shall be made within 60 days of replacement of spent media which requires more than 50% of the biofilter media to be replaced. If any ASP biofilters are replacing media concurrent with the replacement of the mixing building biofilter media, then the ASP biofilter source testing may be used as representative testing in demonstrating compliance with VOC control efficiency requirement for the mixing building biofilter. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
29. District witnessed source testing of biofilter performed to measure VOC and NH₃ inlet concentrations, inlet flowrate, and VOC and NH₃ destruction efficiencies across the biofilter, shall be performed by an independent testing laboratory certified for SCAQMD methods 25.3, 207.1, 1.1, 1.2, 2.1, 2.2, 2.3, 3.1 and 4.1. [District Rule 1070] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

30. The following biofilter test methods shall be used: Biofilter temperature - EPA method 170.1, moisture content - TMECC 03.09 (Total solids and moisture at 70+/-5 degrees centigrade), media pH - TMECC 04.11-A (1:5 slurry pH), VOC leaks - EPA Method 21 (VOC leaks), and hydrocarbon analyzer for VOCs calibrated with certified zero and 10 ppmv methane standards. [District Rule 1081] Federally Enforceable Through Title V Permit
31. Operator may use an alternate test method to those listed above for which written approval of the APCO has been obtained. [District Rule 1081] Federally Enforceable Through Title V Permit
32. District shall be notified at least 30 days prior to any compliance source testing, and a source test plan shall be submitted for approval at least 15 days prior to testing. Official test results and field test data from compliance testing shall be submitted within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
33. The following operating parameters shall be documented during times of testing: biofilter exhaust blower discharge pressure and temperature, biofilter air flow, biofilter media temperature (all 16 grids), moisture content and pH (Only two samples of moisture and pH required, samples to be taken at one central location (from at least two feet deep)). Moisture and pH shall also be sampled, and recorded, for every grid in which the temperature is found to be out of the permitted range. [District Rule 1070] Federally Enforceable Through Title V Permit
34. VOC and NH3 samples shall be analyzed by a lab certified by SCAQMD to perform identified SCAQMD test methods. [District Rule 1081] Federally Enforceable Through Title V Permit
35. Records shall be kept of wet tons per day of biosolids fed into the feedstock mixing operation, daily amendment mix ratio, monthly biofilter temperature, moisture and pH readings, weekly biofilter media temperature and exhaust blower discharge pressure readings, associated biofilter grid locations, and annual VOC emissions on a 12 month rolling average. Records shall be kept of visual inspections and actions taken to correct compaction (and/or high biofilter blower fan pressure(s)), channeling, excessive vegetative growth or a noticeable increase in odors, including date of inspection and date actions were taken to correct problem(s). Records shall be kept of dates and hours each biofilter fan is shutdown for maintenance and/or repair. Records shall be retained on-site for a period of at least five years and made readily available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-2-6

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

BIOSOLIDS CO-COMPOSTING OPERATION INCLUDING TWENTY POSITIVELY AERATED STATIC PILE (ASP) COMPOSTING ZONES, EACH WITH A MAINTAINED FINISHED COMPOST BIOFILTER LAYER CAP; INCLUDING BLOWER FANS AND SURFACE SPRINKLER SYSTEM

PERMIT UNIT REQUIREMENTS

1. All materials for processing shall be maintained adequately moist to prevent visible emissions in excess of 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Co-composting shall be performed in positively aerated static piles (+ASPs) with a biofilter layer and an engineered, under pile, grid aeration system. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
3. Water shall be applied as needed to maintain optimum biofilter cap media temperature and moisture content. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
4. Air pollution equipment (variable speed drive blower fans, ducting, etc.) shall be properly maintained in accordance with manufacturer recommendations, except for times of maintenance and/or repair allowed by conditions below. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
5. Mechanical equipment associated with each +ASP may be taken out of service for a total of 48 hours per 6-month time period for the purpose of maintenance and/or repair. [District Rules 2020 and 2201] Federally Enforceable Through Title V Permit
6. Each +ASP shall be covered with at least 24" of finished compost within two days of constructing the +ASP (placing feedstock in that +ASP zone). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
7. The VOC destruction efficiency across each biofilter cap serving the co-compost +ASPs shall not be less than 80%, or, the total VOC emission rate shall not exceed 2 pounds in any one day. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
8. The NH3 destruction efficiency across each biofilter cap serving the co-compost +ASPs shall not be less than 80%, or, the total NH3 emission rate shall not exceed 2 pounds in any one day. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
9. Maximum quantity of feedstock (mixed biosolids and amendments) introduced into co-compost +ASPs shall not exceed 6,466 tons/day nor 670,000 tons/year (based on a rolling 12 months). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
10. VOC emissions from this permit unit (includes all +ASP surfaces with their biofilter caps) shall not exceed 0.23826 b/ton throughput. Throughput is defined as wet ton, as mixed, feedstock introduced into compost ASPs. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
11. VOC emissions from the biofilter caps serving the co-composting zones shall not exceed 1,540.6 lb/day or 159,634 lb/year. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
12. NH3 emissions from the +ASPs shall not exceed 0.2203lb/ton throughput. Throughput is defined as wet ton, as mixed, feedstock introduced into compost +ASPs. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. NH₃ emissions from the biofilter caps serving the co-composting zones shall not exceed 1424.5 lb/day. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
14. Permittee shall implement at least two (2) Rule 4565 class one mitigation measures, in addition to one (1) class two mitigation measures for active composting and one (1) class two mitigation measure for curing composting. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
15. Each biofilter cap aeration fan shall operate as needed to maintain moisture content between 45 and 80% and temperature between 80 and 120 degree F, as measured at an appropriate depth below the media surface. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
16. +ASPs shall have no measurable increase (<0.45 ppmv increase) over background levels of hydrocarbons within three feet of any surface of any +ASP/biofilter caps. Testing shall be performed once per quarter in accordance with the requirements of Rule 4565 section 5.4 using a District approved analyzer. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
17. Every +ASP biofilter cap temperature and moisture shall be monitored monthly by sampling at least one location on each +ASP. Samples shall be taken at two depths beneath the surface. Samples shall be analyzed at in-house laboratory within 48 hours of collection. After collection of biofilter media samples, any sample holes shall be filled immediately with the excavated material. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
18. +ASP biofilter cap surface, for source testing purposes, shall be divided into two rectangular sub-zones uniformly sized areas (two half zones per zone). When source testing the +ASP/biofilter cap, a minimum of four representative test points shall be used testing along diagonal transect lines per sub-zones with six points along the line with testing on the four inner points on the transect line. Testing shall be performed on eight days of the 45 day compost life-cycle (recommended Day 1,3,5,7,14,21,28,45) for a total of 32 flux samples with an additional 10% QC samples (5% blank samples and 5% replicate samples) [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
19. Biofilter media cap shall be maintained at a depth of 18" to 24", as needed, to maintain the effective biofilter layer on the compost surface. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
20. Biofilter caps shall be checked visually at least weekly for compaction, moisture level, channeling (cracks), or noticeable increase in detectable odors. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
21. Biofilter cap media temperature shall be monitored weekly with automatic or manual temperature probe(s) inserted into a minimum of 4 representative test points along an approximate diagonal transect line for each ASP zone. If manual probes are utilized the probe shall remain in place for 30 to 90 seconds to allow the temperature reading to stabilize before recording the temperature. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
22. If any +ASP/biofilter cap media temperature reading is out of range, then the biofilter cap moisture shall be tested, and recorded, for the corresponding zone(s). [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
23. If any biofilter cap monitoring parameter is out of range, the applicant shall perform the necessary maintenance to return the media parameter(s) to the permitted range within one week of detecting the problem. All grids which tested out of range shall be re-tested within one week. If any grid is still out of range additional biofilter media shall be added within ten days until the monitoring parameters are documented to be within appropriate operational ranges. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
24. Demonstration of compliance with biofilter cap VOC daily emissions limit (DEL) and control efficiency shall be performed not less than once every two years thereafter. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
25. The following biofilter cap test methods shall be used: biofilter temperature - EPA method 170.1, moisture content - TMECC 03.09 (Total solids and moisture at 70+1 to 5 degrees centigrade), VOC leaks - EPA Method 21 (VOC leaks), and hydrocarbon analyzer for VOCs calibrated with certified zero and 10 ppmv methane standards. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. District witnessed source testing to determine surface VOC concentrations, flowrate, and destruction efficiency across selected +ASP biofilter caps shall be performed by an independent testing laboratory certified for SCAQMD test methods 25.3, and 201.1. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
27. Operator may use an alternate test method to those listed above for which written approval of the APCO has been obtained. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
28. District shall be notified at least 30 days prior to any compliance source testing, and a source test plan shall be submitted for approval at least 15 days prior to testing. Official test results and field test data from compliance testing shall be submitted within 60 days thereafter. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
29. VOC samples shall be analyzed by a lab certified by SCAQMD to perform identified SCAQMD test methods. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
30. Records shall be kept that demonstrate that the facility meets the Rule 4565 class one mitigation measures selected each day that a mitigation measure is performed. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
31. Operator shall maintain an inspection logbook which contains the quarterly VOC hydrocarbon analyzer readings in ppmv for each inspection location (on surface of the +ASP/biofilter cap), along with the date of the inspection. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
32. Records shall be kept of wet tons per day of biosolids fed into the feedstock mixing operation, daily amendment mix ratio, monthly biofilter cap temperature, moisture readings, weekly biofilter cap temperature and blower inlet pressure readings, associated biofilter cap zone locations, and annual VOC emissions on a 12 month rolling average. Records shall be kept of visual inspections and actions taken to correct compaction (and/or high +ASP/biofilter cap blower fan pressure(s)), channeling, excessive vegetative growth or a noticeable increase in odors, including date of inspection and date actions were taken to correct problem(s). Records shall be kept of dates and hours each +ASP fan is taken out of service for maintenance and/or repair. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
33. All records shall be retained on-site for a period of at least five years and made readily available for District inspection upon request. [District Rules 2201 and 4565] Federally Enforceable Through Title V Permit
34. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 [40 CFR Part 64.7] Federally Enforceable Through Title V Permit
35. If the District or EPA determine that a quality improvement plan is required under 40 CFR part 64.7(d)(2), the permittee shall develop and implement the quality improvement plan in accordance with 40 CFR part 64.8. [40 CFR Part 64.8] Federally Enforceable Through Title V Permit
36. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64.9] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-4-2

EXPIRATION DATE: 02/28/2021

EQUIPMENT DESCRIPTION:

415 BHP DETROIT MODEL 6063MK35 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. Emissions from this engine shall not exceed any of the following: NOx (as NO2): 5.70 grams/hp-hr, CO: 0.40 grams/hp-hr or VOC: 0.14 grams/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The PM10 emissions rate shall not exceed 0.08 grams/hp-hr based on US EPA certification using ISO 8178 test procedure. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rule 4702] Federally Enforceable Through Title V Permit
8. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
11. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 2201, 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall maintain monthly records that include the type of fuel purchased, the amount of fuel purchased, and the date of fuel purchase. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.), and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. The permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment. [District Rule 1070] Federally Enforceable Through Title V Permit
16. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [District Rule 1070] Federally Enforceable Through Title V Permit
17. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-4212-8-1

EXPIRATION DATE: 02/28/2021

SECTION: 24 **TOWNSHIP:** 32S **RANGE:** 25E

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HFC06 TIER 4F INTERNAL COMBUSTION ENGINE, OR EQUIVALENT, POWERING A VERMEER MODEL TR626 TROMMEL MILL SCREEN WITH STACKING CONVEYOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
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 a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. The owner/operator shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total daily hours of operation with start and stop times, type of fuel used, annual maintenance or modifications performed, monitoring data, and any other information necessary to demonstrate compliance. The engine operating log shall also include the total time engine operates in hours per calendar year. [District Rule 4702] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4702 and 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 0.25 g-NOx/bhp-hr, 0.07 g-CO/bhp-hr, or 0.01 g-VOC/bhp-hr. [District Rule 2201 and 4702] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.01 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 4702] Federally Enforceable Through Title V Permit
8. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702] Federally Enforceable Through Title V Permit

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

ATTACHMENT C

Detailed Summary List of Facility Permits

Detailed Facility Report
For Facility=4212 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

SOUTH KERN INDUSTRIAL CENTER LLC 2653 SANTIAGO RD TAFT, CA 93268	FAC #	S 4212	TYPE:	TitleV	EXPIRE ON:	02/28/2021
	STATUS:	A	TOXIC ID:	60314	AREA:	7 /
	TELEPHONE:				INSP. DATE:	07/22

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-4212-1-7	400 hp	3020-01 F	1	731.00	731.00	A	BIOSOLIDS AND AMENDMENTS RECEIVING/MIXING OPERATION, INCLUDING AMENDMENT STORAGE AREA, FEED HOPPER WITH WATER SPRAY MISTERS, CONVEYOR DISCHARGING TO AMENDMENT PILES IN MIXING BUILDING, BIOSOLIDS UNLOADING INTO MIXING BUILDING, WITH MIXING BUILDING AND COVERED FEEDSTOCK CONVEYOR VENTED TO MIXING BUILDING BIOFILTER
S-4212-2-6	400 to 800 hp	3020-01 F	1	731.00	731.00	A	BIOSOLIDS CO-COMPOSTING OPERATION INCLUDING TWENTY POSITIVELY AERATED STATIC P
S-4212-4-2	415 bhp IC engine	3020-10 D	1	577.00	577.00	A	415 BHP DETROIT MODEL 6063MK35 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-4212-8-1	125 bhp	3020-10 B	1	143.00	143.00	A	TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HFC06 TIER 4F INTERNAL COMBUSTION ENGINE, OR EQUIVALENT, POWERING A VERMEER MODEL TR626 TROMMEL MILL SCREEN WITH STACKING CONVEYOR

Number of Facilities Reported: 1

ATTACHMENT D

District Rule 4601 Stringency Analysis

Stringency Comparison of District Rule 4601 Non-SIP Version (4/16/20) to Current SIP Version (12/17/09)

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
2.0 Applicability	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	The only change is to include applicability of this rule to the person marketing the coatings, therefore, non-SIP version of rule is more stringent than SIP version.
4.0 Exemptions	<p>4.1 The provisions of this rule shall not apply to:</p> <p>4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.1.2 Any aerosol coating product.</p> <p>4.2 With the exception of Section 6.2, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less.</p>	<p>4.1 The provisions of this rule shall not apply to:</p> <p>4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.1.2 Any aerosol coating product.</p> <p>4.2 With the exception of Section 6.2 and Section 4.3, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less, provided the following requirements are met:</p> <p>4.2.1 The coating container is not bundled together with other containers of the same specific coating category (listed in Table 1) to be sold as a unit that exceeds one liter (1.057 quart), excluding containers packed together for shipping to a retail outlet, and</p> <p>4.2.2 The label or any other product literature does not suggest combining multiple containers of the same specific category (listed in Table 1) so that the combination exceeds one liter (1.057 quart).</p> <p>4.3 On and after sixty days following the effective date of EPA final rulemaking that the conditions described in Clean Air Act Sections 172(c)(9) and 182(c)(9) have occurred in the San Joaquin Valley regarding the 2008 8-hour Ozone National Ambient Air Quality Standard, the categories of coatings listed below shall no longer be exempt from the provisions of Table 1 of this rule when sold in containers having capacities of one liter (1.057 quarts) or less:</p> <p>4.3.1 Bituminous Roof Coatings;</p> <p>4.3.2 Flat Coatings that are sold in containers having capacities greater than eight fluid ounces;</p> <p>4.3.3 Magnesite Cement Coatings;</p> <p>4.3.4 Multi-Color Coatings;</p>	The exemptions for colorant and for architectural coatings sold in a container with a volume of one liter (1.057 quarts) or less have been added to the rule in order to make the amended rule consistent with the exemptions presented in 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings. Therefore, the non-SIP version of the rule is as stringent as the SIP version of the rule.

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
		<p>4.3.5 Nonflat Coatings that are sold in containers having capacities greater than eight fluid ounces;</p> <p>4.3.6 Pre-Treatment Wash Primers;</p> <p>4.3.7 Reactive Penetrating Sealers;</p> <p>4.3.8 Shellacs (Clear and Opaque);</p> <p>4.3.9 Stone Consolidants;</p> <p>4.3.10 Swimming Pool Coatings;</p> <p>4.3.11 Tub and Tile Refinishing Coatings;</p> <p>4.3.12 Wood Coatings, including Lacquers, Varnishes, and Sanding Sealers; and</p> <p>4.3.13 Wood Preservatives.</p> <p>4.4 Colorant added at the factory or at the worksite is not subject to the VOC limits in Table 2. In addition, containers of colorant sold at the point of sale for use in the field or on a job site are also not subject to the VOC limit in Table 2.</p>	
<p>5.0 Requirements</p>	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall: manufacture, blend, or repackage for use within the District; or supply, sell, or offer for sale within the District; or solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.</p>	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall: manufacture, blend, or repackage for use within the District; or supply, sell, market or offer for sale within the District; or solicit for application or apply within the District any architectural coating or colorant with a VOC content in excess of the corresponding limit specified in Table 1 or Table 2, after the specified effective date in Table 1 or Table 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.</p>	<p>The Table of Standards 1 and the Table of Standard 2 have been replaced with more stringent Table 1 with VOC content limit for coatings and Table 2 with VOC content limit for colorants with more stringent VOC limits as shown in the tables at the end of this document. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, Nonflat, or Nonflat – High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2.</p> <p>5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.3.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.2 Effective on and after January 1, 2011, with the exception of the specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the</p>	<p>5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in Table 1 or, then that coating is not required to meet the VOC limits for Flat or Nonflat coatings, but is required to meet the VOC limit for the applicable specialty coating listed in Table 1 or . With the exception of the specialty coating categories specified in Sections 5.2.1 through 5.2.12, if a coating is recommended for use in more than one of the specialty coating categories listed in Table 1, then the most restrictive (or lowest) VOC content limit shall apply. This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.3 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</p> <p>5.2.3.1 Lacquer coatings (including lacquer sanding sealers)</p> <p>5.2.3.2 Metallic pigmented coatings</p> <p>5.2.3.3 Shellacs</p> <p>5.2.3.4 Fire-retardant coatings</p> <p>5.2.3.5 Pretreatment wash primers</p> <p>5.2.3.6 Industrial maintenance coatings</p> <p>5.2.3.7 Low-solids coatings</p> <p>5.2.3.8 Wood preservatives</p> <p>5.2.3.9 High temperature coatings</p> <p>5.2.3.10 Temperature-indicator safety coatings</p> <p>5.2.3.11 Antenna coatings</p> <p>5.2.3.12 Antifouling coatings</p> <p>5.2.3.13 Flow coatings</p> <p>5.2.3.14 Bituminous roof primers</p> <p>5.2.3.15 Specialty primers, sealers and undercoaters</p> <p>5.2.3.16 Aluminum roof coatings</p> <p>5.2.3.17 Zinc-rich primers</p> <p>5.2.3.18 Wood Coatings</p>	<p>5.2.1 Metallic pigmented coatings;</p> <p>5.2.2 Shellacs;</p> <p>5.2.3 Pretreatment wash primers;</p> <p>5.2.4 Industrial maintenance coatings;</p> <p>5.2.5 Low-solids coatings;</p> <p>5.2.6 Wood preservatives;</p> <p>5.2.7 High temperature coatings;</p> <p>5.2.8 Bituminous roof primers;</p> <p>5.2.9 Specialty primers, sealers and undercoaters;</p> <p>5.2.10 Aluminum roof coatings;</p> <p>5.2.11 Zinc-rich primers; and</p> <p>5.2.12 Wood Coatings.</p>	
	<p>5.3 Sell-Through of Coatings: A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.</p>	<p>5.3 Sell-Through of Coatings: 5.3.1 A coating manufactured prior to January 1, 2022, may be sold, supplied, or offered for sale for up to three years after January 1, 2022. In addition, a coating manufactured before January 1, 2022 may be applied at any time, both before and after January 1, 2022, so long as the coating complied with the standards in effect at the time the coating was manufactured. This subsection 5.3.1 does not apply to any coating that does not display the date or date-code required by subsection 6.1.1.</p> <p>5.3.2 A colorant manufactured prior to January 1, 2022, may be sold, supplied, or offered for sale for up to three years after January 1, 2022. In addition, a colorant manufactured before January 1, 2022 may be applied at any time, both before and after January 1, 2022, so long as the colorant complied with the standards in effect at the time the colorant was manufactured. This subsection 5.3.2 does not apply to any colorant that does not display the date or date-code required by subsection 6.1.1.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means,</p>	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding,</p>	<p>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.	ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.	
	5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.	5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.	No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.
	5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards 1.		The VOC limit of the SIP version is no longer applicable at this time and has been removed.
	5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat – High Gloss coating, based on its gloss, and the corresponding Flat, Nonflat, or Nonflat – High Gloss VOC limit in the Table of Standards 1 or the Table of Standards 2 shall apply.	5.6 Coatings Not Listed in Table 1: For any coating that does not meet any of the definitions for the specialty coatings categories listed in Table 1, the VOC content limit shall be determined by classifying the coating as Flat or Nonflat, based on its gloss, and the corresponding Flat or Nonflat VOC limit in Table 1 shall apply.	The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
		5.7 Colorants: No person within the District shall, at the point of sale of any architectural coating subject to subsection 5.1, add to such coating any colorant that contains VOCs in excess of the corresponding applicable VOC limit specified in Table 2. The point of sale includes retail outlets that add colorant to a coating container to obtain a specific color.	The VOC limit for colorants in non-SIP version more stringent than the SIP version of the rule.
	5.8 Prior to January 1, 2011, any coating that meets a definition in Section 3.0 for a coating category listed in the Table of Standards 2 and complies with the applicable VOC limit in the Table of Standards 2 and with Sections 5.2 and 6.1 (including those provision of Section 6.1 otherwise effective on January 1, 2011) shall be considered in compliance with this rule.		The VOC limit of the SIP version is no longer applicable at this time and has been removed.
	Table of Standards 1 (Effective on and after 1/1/11)	Table 1 VOC Content Limits for Coatings (Effective on and after 1/1/22) (See end of the document for Table Comparison)	The requirements of Table of Standard 1 are more stringent than the Table 1 in the SIP rule. Therefore, non-SIP version of rule is as stringent as SIP version.

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	Table of Standards 2 (Effective on and after 1/1/11)	Table 2 VOC Content Limits for Colorants (Effective on and after 1/1/22) (See end of the document for Table Comparison)	VOC content limits for colorants were added under the amended rule. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
6.0 Administrative Requirements	<p>6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections 6.1.1 through 6.1.14 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.1.4 Faux Finishing Coatings: Effective January 1, 2011, the labels of all clear topcoat Faux Finishing coatings shall prominently display the statement "This product can only be sold or used as part</p>	<p>6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections 6.1.1 through 6.1.12 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing. VOC Content shall be determined as defined in subsections</p>	The non-SIP approved rule contain sections listed in the SIP rule plus additional requirements not found in the SIP version for colorants. Therefore, non-SIP version of rule is as stringent as SIP version.

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>of a Faux Finishing coating system".</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 "For industrial use only"</p> <p>6.1.5.2 "For professional use only"</p> <p>6.1.5.3 "Not for residential use" or "Not intended for residential use"</p> <p>6.1.6 Clear Brushing Lacquers: The labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed." (Category deleted effective January 1, 2011.)</p> <p>6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only".</p> <p>6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.</p> <p>6.1.8.1 For fire-damaged substrates.</p> <p>6.1.8.2 For smoke-damaged substrates.</p> <p>6.1.8.3 For water-damaged substrates.</p> <p>6.1.8.4 For excessively chalky substrates.</p> <p>6.1.8.5 For blocking stains.</p> <p>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time. (Category deleted effective January 1, 2011.)</p> <p>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2011, the labels of all Reactive Penetrating Sealers shall prominently display the statement "Reactive Penetrating Sealer."</p> <p>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement "Stone Consolidant - For Professional Use Only."</p> <p>6.1.12 Nonflat- High Gloss Coatings: The labels of all Nonflat - high gloss coatings shall prominently display the words "High Gloss."</p>	<p>3.72, 3.73, and 3.74.</p> <p>6.1.4 Faux Finishing Coatings: The labels of all clear topcoat Faux Finishing coatings shall prominently display the statement "This product can only be sold or used as part of a Faux Finishing coating system".</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 "For industrial use only"</p> <p>6.1.5.2 "For professional use only"</p> <p>6.1.6 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only".</p> <p>6.1.7 Specialty Primers, Sealers and Undercoaters: The labels of all specialty primers, sealers, and undercoaters shall prominently display the statement "Specialty Primer, Sealer, Undercoater"</p> <p>6.1.8 Reactive Penetrating Sealers: The labels of all Reactive Penetrating Sealers shall prominently display the statement "Reactive Penetrating Sealer."</p> <p>6.1.9 Stone Consolidants: The labels of all Stone Consolidants shall prominently display the statement "Stone Consolidant - For Professional Use Only."</p> <p>6.1.10 Wood Coatings: The labels of all Wood Coatings shall prominently display the statement "For Wood Substrates Only."</p> <p>6.1.11 Zinc Rich Primers: The labels of all Zinc Rich Primers shall prominently display the statement "For professional use only."</p> <p>6.1.12 Colorants: Effective January 1, 2022, each manufacturer of any colorant subject to this rule shall display the information listed in subsections 6.1.12.1 and 6.1.12.2 on the container (or label) in which the colorant is sold or distributed.</p> <p>6.1.12.1 Date Code: The date the colorant was manufactured, or a date code representing the date, shall be indicated on the label, lid, or bottom of the container. If the manufacturer uses a date code for any colorant, the manufacturer shall file an explanation of each code with the APCO.</p> <p>6.1.12.2 VOC Content: Each container of any colorant subject to this rule shall display one of the following values in grams of VOC per liter of</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement "For Wood Substrates Only."</p> <p>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3.</p> <p>6.1.14.1 "For industrial use only"</p> <p>6.1.14.2 "For professional use only"</p> <p>6.1.14.3 "Not for residential use" or "Not intended for residential use"</p>	<p>colorant.</p> <p>6.1.12.2.1 Maximum VOC Content as determined from all potential product formulations; or</p> <p>6.1.12.2.2 VOC Content as determined from actual formulation data; or</p> <p>6.1.12.2.3 VOC Content as determined using the test methods in subsection 6.3.2.</p> <p>If the colorant contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing. VOC Content shall be determined as defined in subsections 3.72, 3.73, and 3.74.</p>	
	<p>6.2 Reporting Requirements</p> <p>The reporting requirements specified in Sections 6.2.1 through 6.2.6 shall apply until December 31, 2010.</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of</p>	<p>6.2 Reporting Requirements</p> <p>6.2.1 Sales Data: All sales data listed in Sections 6.2.1.1 to 6.2.1.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of CARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17, California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.1.1 through 6.2.1.14:</p> <p>6.2.1.1 The name and mailing address of the manufacturer;</p> <p>6.2.1.2 The name, address and telephone number of a contact person;</p> <p>6.2.1.3 The name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.1.4 Whether the product is marketed for interior or exterior use or both;</p> <p>6.2.1.5 The number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.1.6 The VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less</p>	<p>All the reporting requirements were removed except the sales data requirements presented in 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings in order to make the amended rule consistent with SCM. Therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p> <p>6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales.</p> <p>6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 to 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17, California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections</p>	<p>than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.1.7 The names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.1.8 The names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.1.9 Whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.1.10 Description of resin or binder in the product;</p> <p>6.2.1.11 Whether the coating is a single-component or multi-component product;</p> <p>6.2.1.12 The density of the product in pounds per gallon;</p> <p>6.2.1.13 The percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.1.14 The percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>6.2.7.1 through 6.2.7.14:</p> <p>6.2.7.1 the name and mailing address of the manufacturer;</p> <p>6.2.7.2 the name, address and telephone number of a contact person;</p> <p>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.7.4 whether the product is marketed for interior or exterior use or both;</p> <p>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.7.10 description of resin or binder in the product;</p> <p>6.2.7.11 whether the coating is a single-component or multi-component product;</p> <p>6.2.7.12 the density of the product in pounds per gallon;</p> <p>6.2.7.13 the percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.7.14 the percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>		
	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods</p>	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test</p>	<p>Numerous definitions were added, deleted or modified in order to make the amended rule</p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating shall be determined as defined in Section 3.77, 3.78, or 3.79 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.77 and 3.79, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.16. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.3, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.3. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes</p>	<p>methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in Table 1 or the 2, the VOC content of a coating shall be determined as defined in Section 3.71, 3.72, or 3.73 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To VOC Content of Coatings or Colorants: To determine the physical properties of a coating or colorant in order to perform the calculations in Section 3.71 and 3.73, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.15. An alternative method to determine the VOC content of coatings or colorants is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1996), BAAQMD Method 43 (Revised 2005), or BAAQMD Method 41 (Revised 2005), as applicable. To determine the VOC content of a coating or colorant, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.4, formulation data, or any other reasonable means for predicting that the coating or colorant has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.4. The District Air Pollution Control Officer (APCO) may require</p>	<p>consistent with definitions and rule requirements presented in 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.4 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.5 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-07, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.6 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-07, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.7 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-89 (1999), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.8 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.9 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM D1613-06, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p> <p>6.3.10 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category</p>	<p>the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 To determine the VOC content of a coating or colorant with a VOC content of 150 g/l or less, the manufacturer may use SCAQMD Method 313, incorporated by reference in subsection 6.3.34, ASTM D6886-18, incorporated by reference in subsection 6.3.35, or any other reasonable means for predicting that the coating or colorant has been formulated as intended (e.g., quality assurance checks, record keeping).</p> <p>6.3.4 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.2 4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.5 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.6 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-18B, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.7 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-18ce1, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.8 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-14 (2018), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating and Nonflat Coating).</p> <p>6.3.9 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.10 Acid Content of Coatings: The acid content of a coating shall be</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>deleted effective January 1, 2011.)</p> <p>6.3.11 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films"(see Section 3, Specialty Primer, Sealer and Undercoater). (Category deleted effective January 1, 2011.)</p> <p>6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1993), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.16 Alternative VOC Content of Coatings: <i>The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," SCAQMD Laboratory Methods of Analysis for Enforcement Samples.</i></p> <p>6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be</p>	<p>determined by ASTM D1613-17, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p> <p>6.3.11 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, revised 2006 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.12 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, revised 2006 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds: The content of compounds exempted under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1996), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.15 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples.</i></p> <p>6.3.16 Methacrylate Traffic Marking Coatings: The VOC content of</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-04, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.19 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-02, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.21 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-07, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.22 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02e1, "Standard Test Method for Evaluating Degree of Blistering of Paints".</p> <p>6.3.23 Waterproofing Membrane: Waterproofing membrane shall be tested by ASTM C836-06, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.24 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-00, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber" and ASTM D3274-95, "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation".</p>	<p>methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.17 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-17, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.18 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585/4585M-18, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-17, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.19 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05 (2011)e2, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-14, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.21 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585/4585M-18, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02 (2017), "Standard Test Method for Evaluating Degree of Blistering of Paints".</p> <p>6.3.22 Waterproofing Membrane: Waterproofing membrane shall be ASTM C836/836M-18, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.23 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-16, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
	<p>6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.26 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-05, "Standard Test Method for Water Vapor Transmission of Materials".</p> <p>6.3.27 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.28 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01, "Standard Guide for Selection and Use of Stone Consolidants".</p>	<p>Environmental Chamber" and ASTM D3274-09 (2017), "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Fungal or Algal Growth or Soil and Dirt Accumulation". 6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.24 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67/C67M-18, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97/97M-18, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-140M-18a, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units"</p> <p>6.3.25 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-16, "Standard Test Method for Water Vapor Transmission of Materials" or ASTM D6490-99 (2014), "Standard Test Method for Water Vapor Transmission of Nonfilm Forming Treatments Used on Cementitious Panels".</p> <p>6.3.26 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.27 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01 (2008), "Standard Guide for Selection and Use of Stone Consolidants".</p> <p>6.3.28 Building Envelope Coating Air Permeance of Building Materials: ASTM E2178-13, "Standard Test Method for Air Permeance of Building Materials".</p> <p>6.3.29 Building Envelope Coating Water Penetration Testing: ASTM E331-00 (2016), "Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air</p>	

Requirement Category	SIP Version of Rule 4601 (12/17/09)	Non-SIP Version of Rule 4601 (4/16/20)	Conclusion
		<p>Pressure Difference".</p> <p>6.3.30 Building Envelope Coating Water Vapor Transmission: ASTM E96/96M-16, "Standard Test Methods for Water Vapor Transmission of Materials".</p> <p>6.3.31 Tile and Stone Sealers Absorption: ASTM C373-18, "Standard Test Methods for Determination of Water Absorption and Associated Properties by Vacuum Method for Pressed Ceramic Tile and Glass Tiles and Boil Method for Extruded Ceramic Tiles and Non-tile Fired Ceramic Whiteware Products"; or ASTM C97/97M-18, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C642-13, "Standard Test Method for Density, Absorption, and Voids in Hardened Concrete".</p> <p>6.3.32 Tile and Stone Sealers – Static Coefficient of Friction: ANSI A137.1 (2012), "American National Standard of Specifications for Ceramic Tile".</p> <p>6.3.33 Tile and Stone Sealers Water Vapor Transmissions: ASTM E96/96M-16, "Standard Test Methods for Water Vapor Transmission of Materials".</p> <p>6.3.34 VOC Content of Coatings: South Coast AQMD Method 313, "Determination of Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometry/Flame Ionization Detection (GS/MS/FID)".</p> <p>6.3.35 VOC Content of Coatings: ASTM D6886-18, "Standard Test Method for Determination of the Weight Percent Individual Volatile Organic Compounds in Waterborne Air-Dry Coatings by Gas Chromatography".</p>	
7.0 Compliance Schedule	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.

District Rule 4601 was amended (4/16/20). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule.

Here is the link to 2020 California Air Resources Board (ARB) Suggested Control Measures (SCM) for Architectural Coatings:

https://ww2.arb.ca.gov/sites/default/files/2020-07/2020SCM_final.pdf

Table 1 VOC Content Limits for Coatings

COATING CATEGORY	Current Rule 4601 VOC Limit (g/l) Effective on and after 1/1/2012	Amended Rule 4601 VOC Limit (g/l) Effective on and after 1/1/2022
Flat Coatings	50	50
Nonflat Coatings	100	50
Specialty Coatings -		
Aluminum Roof Coatings	400	100
Basement Specialty Coatings	400	400
Bituminous Roof Coatings	50	50
Bituminous Roof Primers	350	350
Bond Breakers	350	350
Building Envelope Coatings	-	50
Concrete Curing Compounds	350	350
Concrete/Masonry Sealers	100	100
Driveway Sealers	50	50
Dry Fog Coatings	150	50
Faux Finishing Coatings	350	350
Fire Resistive Coatings	350	150
Floor Coatings	100	50
Form-Release Compounds	250	100
Graphic Arts Coatings (Sign Paints)	500	500
High Temperature Coatings	420	420
Industrial Maintenance Coatings	250	250
Low Solids Coatings ¹²	120 ¹	120 ¹
Magnesite Cement Coatings	450	450
Mastic Texture Coatings	100	100
Metallic Pigmented Coatings	500	500
Multi-Color Coatings	250	250
Pre-Treatment Wash Primers	420	420
Primers, Sealers, and Undercoaters	100	100
Reactive Penetrating Sealers	350	350
Recycled Coatings	250	250
Roof Coatings	50	50
Rust Preventative Coatings	250	250
Shellacs:		
Clear	730	730
Opaque	550	550
Specialty Primers, Sealers, and Undercoaters	100	100
Stains	250	100
Interior Stains	250	
Stone Consolidants	450	450
Swimming Pool Coatings	340	340
Tile and Stone Sealers	100	
Traffic Marking Coatings	100	100
Tub and Tile Refinish Coatings	420	420
Waterproofing Membranes	250	100
Wood Coatings	275	275
Wood Preservatives	350	350
Zinc-Rich Primers	340	340

Table 2 VOC Content Limits for Colorants

Colorants Added To	VOC Limit (g/l) Effective on and after 1/1/2022
Architectural Coatings, excluding Industrial Maintenance Coatings	50
Solvent Based Industrial Maintenance Coatings	600
Waterborne Industrial Maintenance Coatings	50
Wood Coatings	600