

July 27, 2023

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

Re: Notice of Final Action - Title V Permit Renewal
Facility Number: S-4212
Project Number: S-1203712

Dear Mr. Rankin:

The District has issued the Final Renewed Title V Permit for South Kern Industrial Center LLC (see enclosure). The preliminary decision for this project was made on July 13, 2022. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

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

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

Sincerely,



Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Gerardo Rios, EPA (w/enclosure) via EPS

Samir Sheikh
Executive Director/Air Pollution Control Officer

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**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT**

**Final 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: July 27, 2023

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 April 16, 2020 – SIP approved on December 14, 2022)
- 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
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (amended August 10, 2022)
- 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

District Rule 4601 was last amended on April 16, 2020. EPA approved District Rule 4601 as amended on April 16, 2020 for inclusion in the SIP on December 14, 2022.

The purpose of this rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements. 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 San Joaquin Valley Air Pollution Control District.

As required by a September 2016 decision by the U.S. Court of Appeals for the Ninth Circuit in *Bahr v. U.S. Environmental Protection Agency*,¹ the April 16, 2020 amendments to District Rule 4601 added a contingency measure for the District's 2016 Ozone Plan that would remove the exemption for specific categories of coatings sold in small containers with a volume of one liter or less if EPA issues a finding that the San Joaquin Valley Air Basin has failed to attain, or to make reasonable further progress towards attainment of, the 2008 National Ambient Air Quality Standard (NAAQS) for ozone. The April 16, 2020 amendments to District Rule 4601 implemented provisions of the 2019 California Air Resources Board (ARB) Suggested Control Measure for Architectural Coatings,² including lowering VOC limits for several categories of architectural coatings, setting VOC limits for three new categories of architectural coatings, and adding new requirements for colorants.

The primary effect of the April 16, 2020 amendments to District Rule 4601 was reducing VOC content limits required for specific categories of coatings and adding VOC content limits for specific categories of colorants. The previous VOC content limits of District Rule 4601 and the VOC content limits of coatings and colorants that became effective on and after January 1, 2022 are summarized below.

¹ United States Court of Appeals for the Ninth Circuit (September 12, 2016) *Bahr v. U.S. Environmental Protection Agency*. <https://cdn.ca9.uscourts.gov/datastore/opinions/2016/09/12/14-72327.pdf>

² California Air Resources Board (May 2019) California Air Resources Board (CARB) Suggested Control Measure for Architectural Coatings. https://ww2.arb.ca.gov/sites/default/files/2020-05/10602_scm_final.pdf

Section 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.

Rule 4601, Table 1 - VOC Content Limits for Coatings¹		
COATING CATEGORY	Previous VOC Limit (g/l)	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 ²	120	120
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

Rule 4601, Table 1 - VOC Content Limits for Coatings¹		
COATING CATEGORY	Previous VOC Limit (g/l)	VOC Limit (g/l) Effective on and after 1/1/2022
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

1 Limits are expressed as VOC Regulatory (except where noted otherwise), thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.

2 Units are grams of VOC per liter of coating, including water and exempt compounds, in accordance with Section 3.72.

Rule 4601, Table 2 VOC Content Limits for Colorants¹	
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

1 Limits are expressed as VOC Regulatory.

To ensure compliance with this rule 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]
- {modified 4386} The permittee shall comply with all the Labeling and Test Methods requirements outlined in District Rule 4601, sections 6.1 and 6.3 (4/16/20). [District Rule 4601]

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.

In the preliminary decision of this draft Title V Renewal, the District erroneously applied this subpart based on a misinterpretation of the permitting record, resulting in an inaccurate commencement of construction date. ATC S-4212-4-0 authorized the construction of a 755 bhp diesel-fired emergency IC engine or equivalent on June 8, 2004. The facility proposed and the District approved as equivalent a 415 bhp Detroit model 6063MK35 diesel-fired emergency IC engine on November 14, 2006. South Kern Industrial Center LLC had notified the District prior to receiving ATC S-4212-4-0 that the equipment would not be installed without the District's consent after review of the equivalent engine information. Therefore, it is assumed the facility commenced the construction of S-4212-4-0 on or after November 14, 2006. The engine permitted as S-4212-4 will therefore be classified as a "new" stationary reciprocating internal combustion engine (RICE) as defined in Section 63.6590(a)(2)(ii).

Section 63.6590(c) states an affected source that meets any of the criteria in paragraphs (c)(1) through (7) of the section must meet the requirements of the part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines, or 40 CFR part 60 subpart JJJJ, for spark ignition engines. S-4212-4 is a "new" compression ignition emergency stationary RICE located at an area source of HAP emissions, which meets the criteria in Section 63.6590(c)(1); therefore, it is subject to 40 CFR part 60 subpart IIII in place of 40 CFR part 63. No further requirements apply for the engine under this part.

G. 40 CFR Part 60, Subpart IIII - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

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

The stationary compression ignition IC engine permitted as S-4212-4 was manufactured in January 2006 (See Attachment D), and the permitting record indicates its construction commenced at the facility on or after November 14, 2006. The engine does not satisfy any NSPS applicability date in paragraphs (a)(1) through (3) of this subpart. Since construction of S-4212-4 commenced construction after July 11, 2005, paragraph (a)(4) applies (i.e. section 60.4208). Section 60.4208 specifies the deadline for installing previous model year engines. S-4212-4 was installed before any of the applicable deadlines indicated; therefore S-4212-4 meets the model year installation requirements under Subpart III.

H. 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.³

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.

³ 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.

I. 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.

J. 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] Y

As noted in Section VIII. D, District Rule 4601 was amended on April 16, 2020 and was included in the SIP on December 14, 2022. Therefore, condition #40 in permit S-4212-0-2 has been revised as follows:

- 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 (4/16/20); 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] 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. Engine Dataplate
- E. Public Comments and District Responses

ATTACHMENT A

Renewed Title V Operating Permit

ATTACHMENT B

Previous Title V Operating Permit

ATTACHMENT C

Detailed Summary List of Facility Permits

ATTACHMENT D

Engine Dataplate

ATTACHMENT E

Public Comments and District Responses

Public Comments / District Responses

Public comments regarding the preliminary decision South Kern Industrial Center LLC's Title V permit renewal are provided below followed by the District's responses.

South Kern Industrial Center LLC Comment #1:

Condition #12 contradicts with District Rule 4702 Section 4.3.1, which exempts qualifying emergency engines (i.e. those used exclusively to protect property, human life, or public health during a disaster or state of emergency) from any requirements of Rule 4702 except for the administrative requirements of Section 6.2.3.

District Response to South Kern Industrial Center LLC Comment #1:

The engine permitted as S-4212-4 is an emergency standby IC engine; therefore, Section 4.2 of District Rule 4702 should be applied. Section 4.2 states that the engine is subject to the requirements of Sections 5.10 and 6.2.3. Condition #12 is therefore applicable per Section 5.10.3. Section 4.3 is not applicable to this unit because the IC engine is not limited to operate only for protection of property, human life, or public health during a disaster or state of emergency.

South Kern Industrial Center LLC Comment #2:

40 CFR 63.6590(c)(1) states that a new stationary RICE located at an area source shall demonstrate compliance with Subpart ZZZZ by following 40 CFR Part 60 Subpart IIII requirements, and no further requirements should apply under Part 63. The engine permitted as S-4212-4 is a new engine based on its date of commencement of construction. Therefore, Conditions #13 through 17 that cite Subpart ZZZZ should not be included in the permit.

District Response to South Kern Industrial Center LLC Comment #2:

The District concurs with the comment. The District applied 40 CFR Part 63 Subpart ZZZZ to unit S-4212-4 based on a misinterpretation of the permitting record, resulting in an inaccurate commencement of construction date. ATC S-4212-4-0 allowed the construction of a 755 bhp diesel-fired emergency IC engine or equivalent, and 415 bhp Detroit model 6063MK35 diesel-fired emergency IC engine was determined to be equivalent on November 14, 2006. South Kern Industrial Center LLC had notified the District prior to receiving ATC S-4212-4-0 that the equipment would not be installed without the District's consent after review of the equivalent engine information. Therefore, it is assumed the facility commenced the construction of S-4212-4 on or after November 14, 2006. The engine permitted as S-4212-4 should therefore be classified as a "new" stationary reciprocating internal combustion engine (RICE) as defined in Section

63.6590(a)(2)(ii). For such a “new” engine, Subpart ZZZZ only requires that the engine meet the applicable requirements of 40 CFR Part 60 Subpart IIII. The District thus reviewed 40 CFR Part 60 Subpart IIII for potential requirements that would apply to S-4212-4 and determined Subpart IIII had no applicable requirements based on the IC engine’s manufacture date and the commenced construction date. Therefore, the draft conditions that only have 40 CFR Part 63 Subpart ZZZZ as their basis have been removed.

South Kern Industrial Center LLC Comment #3:

Conditions #9, 10, 11, and 23 should not reference 40 CFR Part 63 Subpart ZZZZ for the same reason discussed in Comment #2.

District Response to South Kern Industrial Center LLC Comment #3:

The District concurs with the comment. For the reasons discussed in the District Response to Comment #2 above, the conditions have been revised to remove reference to the 40 CFR Part 63 Subpart ZZZZ.

South Kern Industrial Center LLC Comment #4:

Condition #10 should not cite Rule 4702 for the same reason discussed in Comment #1. In conjunction with Comment #3, the correct citation should be 40 CFR 60.4211(a) [40 CFR Part 60 Subpart IIII].

District Response to South Kern Industrial Center LLC Comment #4:

For the same reason discussed in the District Response to Comment #1, Condition #10 is applicable pursuant to District Rule 4702 Section 5.10.2. The reference to 40 CFR Part 63 Subpart ZZZZ has been removed, however, the reference to 40 CFR Part 60 Subpart IIII has not been added as the District has determined that Subpart IIII is not applicable. Condition #10 is thus based solely on District Rule 4702.

South Kern Industrial Center LLC Comment #5:

Condition #19 should not cite Rule 4702 for the same reason discussed in Comment #1.

District Response to South Kern Industrial Center LLC Comment #5:

For the same reason discussed in the Response to Comment #1, Condition #19 is applicable pursuant to District Rule 4702 Section 6.2.3.

South Kern Industrial Center LLC Comment #6:

Condition #22 should be revised to remove the recordkeeping requirement during periods of malfunction. The condition also should not cite 40 CFR Part 63 Subpart ZZZZ for the same reason discussed in Comment #2.

District Response to South Kern Industrial Center LLC Comment #6:

Condition #22 has been deleted for the same reason discussed in the Response to Comment #2.

Summary of Changes:

Permit	Draft Condition #	Renewed Condition #	Notes
S-4212-4-3	9 - 12	9 - 12	Revised to remove reference to 40 CFR Part 63 Subpart ZZZZ
	13 - 18	-	Removed as 40 CFR Part 63 Subpart ZZZZ is not applicable to the unit
	19	13	No changes were made to the condition
	22	-	Removed as 40 CFR Part 63 Subpart ZZZZ is not applicable to the unit
	23	16	Revised to remove reference to 40 CFR Part 63 Subpart ZZZZ