

December 2, 2021

Mr. Rick Staggs
Fresno/Clovis Regional WWTP
5607 W Jensen Ave
Fresno, CA 93706-9458

Re: Notice of Preliminary Decision – Title V Permit Renewal
Facility Number: C-535
Project Number: C-1201896

Dear Mr. Staggs:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Fresno/Clovis Regional WWTP at 5607 W Jensen Ave, 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: Laura Yannayon, EPA (w/enclosure) via EPS

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

**Proposed Title V Permit Renewal Evaluation
Fresno/Clovis Regional WWTP
C-535**

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TITLE V PERMIT RENEWAL EVALUATION
Wastewater Treatment and Reclamation Facility

Engineer: Ramon Norman
Date: November 8, 2021

Facility Number: C-535
Facility Name: Fresno/Clovis Regional WWTP
Mailing Address: 5607 W Jensen Ave
Fresno, CA 93706-9458

Contact Name: Jennifer Loving-Biggert
Phone: (559) 621-5122
Email: Jennifer.Loving@fresno.gov

Responsible Official: Rick Staggs
Title: Wastewater Manager

Project # : C-1201896
Deemed Complete: June 4, 2020

I. PROPOSAL

Fresno/Clovis Regional WWTP was issued a Title V permit on March 19, 2001 and the facility's Title V permit was last renewed on June 17, 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 last renewal of the 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

Fresno/Clovis Regional WWTP is located at 5607 W Jensen Ave, Fresno, 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

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

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 April 21, 2011 (SIP version of the Rule) ⇒ amended August 15, 2019)
- District Rule 2520 - Federally Mandated Operating Permits (amended June 21, 2001 (Approved Title V Rule) ⇒ amended August 15, 2019)
- District Rule 4306 - Boilers, Steam Generators, and Process Heaters – Phase 3 (amended October 16, 2008 (SIP version of the Rule) ⇒ amended December 17, 2020)

- District Rule 4311 - Flares (amended June 18, 2009 (SIP version of the Rule) ⇒ amended December 17, 2020)
- District Rule 4320 - Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (adopted October 16, 2008 (SIP version of the Rule) ⇒ amended December 17, 2020)
- District Rule 4601 - Architectural Coatings (amended December 17, 2009 (SIP version of the Rule) ⇒ amended April 16, 2020)
- District Rule 4702 - Internal Combustion Engines (amended November 14, 2013 (SIP version of the Rule) ⇒ amended August 19, 2021)
- 40 CFR Part 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (amended June 29, 2021)
- 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Sections amended November 19, 2020 and December 4, 2020)
- 40 CFR Part 64 - Compliance Assurance Monitoring (adopted October 22, 1997)
- 40 CFR Part 68 - Chemical Accident Prevention Provisions (amended December 19, 2019)
- 40 CFR Part 82, Subpart B - Servicing of Motor Vehicle Air Conditioners (amended May 6, 2021)
- 40 CFR Part 82, Subpart F - Recycling and Emissions Reduction (amended May 6, 2021)

B. Rules Removed

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

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 1100 - Equipment Breakdown (amended December 17, 1992) (Non SIP replacement for Fresno County Rule 110)
- District Rule 1160 - Emission Statements (adopted November 18, 1992)
- District Rule 2010 - Permits Required (amended December 17, 1992)
- District Rule 2020 - Exemptions (amended August 18, 2011 (SIP version of the Rule), amended December 18, 2014)
- District Rule 2031 - Transfer of Permits (amended December 17, 1992)
- District Rule 2070 - Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080 - Conditional Approval (amended December 17, 1992)
- District Rule 2410 - Prevention of Significant Deterioration (adopted June 16, 2011 and became effective November 26, 2012)
- District Rule 4101 - Visible Emissions (amended February 17, 2005)
- District Rule 4201 - Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4301 - Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4304 - Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters (adopted October 19, 1995)
- District Rule 4305 - Boilers, Steam Generators, and Process Heaters – Phase 2 (amended August 21, 2003)
- District Rule 4603, Surface Coating of Metal Parts and Products, Plastic parts and Products, and Pleasure Crafts (amended September 17, 2009)
- District Rule 4606, Wood Products and Flat Wood Paneling Product Coating Operations (amended October 16, 2008)
- District Rule 4701 - Internal Combustion Engines – Phase 1 (amended August 21, 2003)

- District Rule 4801 - Sulfur Compounds (amended December 17, 1992) (Non SIP replacement for Fresno County Rule 406)
- District Rule 8011 - Fugitive PM10 Control: General Requirements (amended August 19, 2004)
- District Rule 8021 - Fugitive PM10 Control: Construction, Demolition, Excavation, and Extraction Activities (amended August 19, 2004)
- District Rule 8031 - Fugitive PM10 Control: Handling and Storage of Bulk Materials (amended August 19, 2004)
- District Rule 8041 - Fugitive PM10 Control: Carryout and Trackout (amended August 19, 2004)
- District Rule 8051 - Fugitive PM10 Control: Open Areas (amended August 19, 2004)
- District Rule 8061 - Fugitive PM10 Control: Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071 - Fugitive PM10 Control: Unpaved Vehicle/Equipment Areas (amended September 16, 2004)
- 40 CFR Part 60 Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (amended February 16, 2012)
- 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

None

B. Rules Not Updated

- **District Rule 2040 - Applications** (amended December 17, 1992 ⇒ removed from SIP December 16, 2004, 69 FR 67062)

The purpose of this rule is to explain the procedures for filing, denying, and appealing the denial of applications for a District Authority to Construct (ATC) or Permit to Operate.

The following condition is based solely on this rule and is therefore not federally enforceable through Title V.

Permit Unit #	Permit Description	Condition #
C-535-0-4	Facility-Wide Permit	7

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

The purpose of this rule is to protect the health and safety of the public. This rule stipulates that a person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such person or the public or which cause or have a natural tendency to cause injury or damage to business or property.

The following conditions are based solely on this rule and are therefore not federally enforceable through Title V.

Permit Unit #	Permit Description	Condition #s
C-535-0-4	Facility-Wide Permit	41
C-535-6-18	16.7 MMBtu/hr Digester Gas/Natural Gas-Fired Boiler with an Ultra-Low NOx Burner	3
C-535-9-18	33.3 MMBtu/hr Waste Gas Flare	1-2
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	2
C-535-26-7	Digester Gas Treatment System with a 7.46 MMBtu/hr Waste Gas Combustion Device	3
C-535-28-2	Unconfined Abrasive Blasting Operation	1-2 & 8-10
C-535-44-1	Transportable 74 bhp Diesel Engine Powering a Pump	2

Permit Unit #	Permit Description	Condition #s
C-535-48-1	Metal Parts and Products and Wood Products Coating Operations	1
C-535-49-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	2
C-535-53-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	2

The following conditions are based on this rule and other federally enforceable requirements. Therefore, the conditions are federally enforceable, but are not federally enforceable through this rule:

Permit Unit #	Permit Description	Condition #s
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	8
C-535-44-1	Transportable 74 bhp Diesel Engine Powering a Pump	8
C-535-48-1	Metal Parts and Products and Wood Products Coating Operations	3 & 4
C-535-49-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	6 & 12
C-535-53-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	6 & 12

- **California Code of Regulations (CCR) Title 17, Sections 92000 - 92540 – Abrasive Blasting** (amended May 1, 1991)

This California regulation prohibits a person performing abrasive blasting outside a permanent building from discharging into the atmosphere any air contaminant for a period or periods aggregating more than three minutes in any one hour, which is dark or darker than Ringelmann 2 (equivalent to 40% opacity) and prohibits a person performing abrasive blasting within any permanent from discharging into the atmosphere any air contaminant for a period or periods aggregating more than three minutes in any one hour, which is dark or darker than Ringelmann 1 (equivalent to 20% opacity). This regulation also requires abrasive blasting operations to comply with the performance standards included in the regulation.

The following conditions are based solely on this regulation and are therefore not federally enforceable through Title V.

Permit Unit #	Permit Description	Condition #s
C-535-28-2	Unconfined Abrasive Blasting Operation	3-7

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

The purpose of this California regulation is to reduce diesel PM and criteria pollutant emissions from stationary diesel-fueled compression-ignition (CI) engines. This regulation applies to any person who either sells a stationary compression-ignition engine, offers a stationary compression-ignition engine for sale, leases a stationary compression-ignition engine, or purchases a stationary compression-ignition engine for use in California, unless such engine is: a portable compression-ignition engine, a compression-ignition engine used to provide motive power, an auxiliary compression-ignition engine used on a marine vessel, or an agricultural wind machine. This regulation also applies to any person who owns or operates a stationary CI engine in California with a rated brake horsepower greater than 50 (> 50 bhp) except as specified in the regulation.

The following conditions are based on this regulation and other federally enforceable requirements. Therefore, the conditions are federally enforceable, but are not federally enforceable through this regulation.

Permit Unit #	Permit Description	Condition #s
C-535-10-4	2,307 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	2, 6, 8, & 18-20
C-535-11-4*	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	2, 5, 8, & 11-13
C-535-12-4*	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	2, 5, 8, & 11-13
C-535-17-4	455 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3, 6, 8, & 18-20
C-535-49-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3-6 & 9-14
C-535-53-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3-6 & 9-14

* Although these engines are transportable when operated, the facility has chosen for these engines to comply with ATCM for stationary IC engines

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

The purpose of this California airborne toxic control measure (ATCM) regulation is to reduce diesel particulate matter (PM) emissions from portable

diesel-fueled engines having a rated brake horsepower of 50 and greater (≥ 50 bhp). All portable engines with a maximum rated horsepower of 50 bhp and greater and fueled with diesel are subject to this regulation, except as specified in the regulation. Exemptions in the regulation include, but are not limited to any engine used to propel mobile equipment or a motor vehicle, tactical support equipment, engines preempted from State regulation under 42 USC §7543(e)(1), and engines used exclusively to alleviate the threat to public health and safety during an emergency event.

The following condition is based solely on this regulation and is therefore not federally enforceable through Title V.

Permit Unit #	Permit Description	Condition #
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	17

The following conditions are based on this regulation and other federally enforceable requirements. Therefore, the conditions are federally enforceable, but are not federally enforceable through this regulation.

Permit Unit #	Permit Description	Condition #s
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	3, 5-8, & 16
C-535-44-1	Transportable 74 bhp Diesel Engine Powering a Pump	3, 5-8, & 17

VIII. PERMIT REQUIREMENTS

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

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

District Rule 2201 has been amended since this facility's Title V permit was last renewed. 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.

B. District Rule 2520 - Federally Mandated Operating Permits

The purpose of this rule is to provide an administrative mechanism for the following: issuing operating permits for new and modified sources of air contaminants in accordance with requirements of 40 CFR Part 70; issuing renewed operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70; revising, reopening, revoking, and terminating operating permits for sources of air contaminants in accordance with requirements of 40 CFR Part 70; incorporating requirements authorized by preconstruction permits issued under District Rule 2201 (New and Modified Stationary Source Review) in a Part 70 permit as administrative amendments, provided that such permits meet the necessary procedural and compliance requirements.

District Rule 2520 was last amended on August 15, 2019 and the California Air Resources Board (ARB) submitted the amended rule to the US EPA on behalf of the District as a revision to the District's Title V program on November 12, 2019. The only purpose of the August 2019 amendments to District Rule 2520 was to allow the noticing required by the rule to be performed electronically rather than by publication in a newspaper, as allowed by Federal regulations. The amendments have no effect on the applicable requirements for the permit units that are subject to the rule.

C. District Rule 4306 - Boilers, Steam Generators, and Process Heaters – Phase 3

The purpose of this rule is to limit emissions of oxides of nitrogen (NO_x) and carbon monoxide (CO) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a total rated heat input greater than 5 million Btu per hour.

The October 16, 2008 version of District Rule 4306 was approved into the SIP on January 13, 2010. The rule was amended on December 17, 2020 and the California Air Resources Board sent the amendments to EPA for inclusion in the SIP on March 12, 2021. The December 17, 2020 amendments to District Rule 4306 added definitions to improve clarity and to reflect the changes in requirements, removed the definition of a load following unit and the specific emission limits for load following units and required these units to comply with the same emission limits as other units of the same size, added additional categories of units and required lower Tier 2 NO_x emission limits for various categories, and established dates for the submission of emission control plans and ATC applications and compliance with the lower Tier 2 emission limits.

Fresno/Clovis Regional WWTP has one 16.7 MMBtu/hr natural gas and digester gas-fired boiler (Unit C-535-6-18) at the facility that is subject to the requirements of District Rule 4306. The only potential effect of the December 17, 2020 amendments to District Rule 4306 is to lower the required NO_x emission limit or reduce the maximum annual fuel input allowed for this unit.

Permit Unit C-535-6-18 is currently subject to the applicable emission limits of District Rule 4306, Section 5.1 – NO_x and CO Emission Limits, Table 1 - Tier 1 NO_x and CO Limits as shown in the table below. The existing unit will become subject to the applicable Tier 2 NO_x and CO limits in accordance with the compliance schedule in the rule.

Section 5.1 - NO_x and CO Emissions Limits

Section 5.1.1 requires that, except for units subject to Section 5.2, on and after the compliance deadline specified in Section 7 units subject to Section 5.0 shall not be operated in a manner which exceeds the applicable NO_x and CO emissions limits specified in Table 1 - Tier 1 NO_x and CO Limits and Table 2 - Tier 2 NO_x and CO Limits (with all ppmv emission limits referenced at dry stack gas conditions and 3.00 percent by volume stack gas oxygen (O₂)).

Rule 4306, Table 1: Tier 1 NO_x and CO Limits					
Category	Operated on Gaseous Fuel			Operated on Liquid Fuel	
	NO_x Limit		CO Limit (ppmv)	NO_x Limit	CO Limit (ppmv)
	Standard Option	Enhanced Option			
A. Units with a rated heat input equal to or less than 20.0 MMBtu/hour, except for Categories C, D, E, F, G, H, and I units	15 ppmv or 0.018 lb/MMBtu	9 ppmv or 0.011 lb/MMBtu	400	40 ppmv or 0.052 lb/MMBtu	400

The current permit requirements for this unit limit NO_x emissions to no more than 9 ppmv @ 3% O₂ and the unit complies with all current applicable requirements of District Rule 4306. The information previously provided by the applicant in the District files indicates that this unit is a fire tube boiler; therefore, District Rule 4306 will require submittal of an emission control plan and ATC application to comply with the applicable requirements of District Rule 4306 by the deadlines specified in the rule.

Pursuant to Section 7.0 – Compliance Schedule, an ATC application and Emission Control Plan must be submitted for this unit to comply with the applicable Tier 2 NO_x and CO limits by May 1, 2028 and the unit must comply with the applicable Tier 2 NO_x and CO limits by December 31, 2029. Compliance with the applicable Tier 2 NO_x and CO limits will be addressed

later through the submittal of an ATC application and an appropriate Title V permit modification process, in accordance with the compliance schedule specified in the rule.

The following conditions of the proposed requirements for renewed Title V permit ensure compliance with this rule.

Permit Unit #	Permit Description	Condition #s
C-535-6-18	16.7 MMBtu/hr Digester Gas/Natural Gas-Fired Boiler with an Ultra-Low NO _x Burner	6, 10-16, 18, 21-24, & 29-30

D. District Rule 4311 - Flares

The purpose of this rule to limit the emissions of volatile organic compounds (VOC), oxides of nitrogen (NO_x), and sulfur oxides (SO_x) from the operation of flares. This rule is applicable to operations involving the use of flares.

The June 18, 2009 version of District Rule 4311 was approved into the SIP on November 3, 2011. The rule was amended on December 17, 2020 and the California Air Resources Board sent the amendments to EPA for inclusion in the SIP on March 12, 2021. The purpose of the December 17, 2020 amendments to District Rule 4311 is to reduce NO_x emissions from flares in accordance with the commitments included in the District’s 2016 Ozone Attainment Plan and 2018 PM_{2.5} Attainment Plan. The primary purpose of the amendments to District Rule 4311 was to require lower NO_x emission limits for flares subject to the rule at various categories of facilities if the amount of gas flared exceeds certain annual throughput limits. The lower NO_x emission limits in the December 17, 2020 amendments to District Rule 4311 will require the installation or use of ultra-low NO_x flares if the amount of gas flared exceeds the annual throughput limits in the rule. Operators of flares may also choose to reduce the usage of flares so as not to be required to use of an ultra-low NO_x flare, in which case the flares would remain subject to the current requirements of District Rule 4311.

Fresno/Clovis Regional WWTP currently has a permit to operate for one 36.3 MMBtu/hr waste gas flare (Unit C-535-9-18) that is subject to the requirements of District Rule 4311. The December 17, 2020 amendments to District Rule 4311 will require this flare to reduce the maximum amount of gas flared annually to no more than the threshold specified in District Rule 4311 or to replace the existing flare with an ultra-low NO_x flare. In addition, Fresno/Clovis Regional WWTP currently has a permit to operate for one 7.46 MMBtu/hr waste gas combustion device (Unit C-535-26-7), which the District previously determined was not flare and not subject to the requirements of District Rule 4311 because its operation did not satisfy the definition of a flare as given in the SIP-approved version of District Rule 4311. If it is determined that the

existing combustion device is subject to any requirements of District Rule 4311 as a result of the recent amendments to District Rule 4311, the requirements will be addressed at that time through the submittal of an ATC application and an appropriate Title V permit modification process.

The requirements of District Rule 4311 that apply to Permit Unit C-535-9-18 are discussed below.

Section 5.0 – Requirements

Pursuant to Section 5.1, flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7.

The permit for the existing flare does not limit operation to only emergencies. Therefore, Section 5.1 does not apply.

Pursuant to Section 5.2, flares that are operated 200 hours or less per calendar year as specified in the Permit to Operate, or with an annual throughput limit equivalent to 200 hours per year at flare rating (MMBtu/hr) as specified in the Permit to Operate, are exempt from the requirements of Sections 5.9 and 5.10 provided that one of the following two conditions are satisfied.

- 5.2.1 For the 200 hours per year validation, the operator shall use a calibrated non-resettable totalizing time meter or equivalent method approved in writing by the APCO; or
- 5.2.2 For the annual throughput limit equivalent to 200 hours per year validation, the operator shall use a calibrated fuel meter or equivalent method approved in writing by the APCO.

The permit for the existing flare does not limit operation to no more than 200 hours per year or an equivalent annual heat input throughput limit. Therefore, Section 5.2 does not apply.

Section 5.3 requires that a flame always be present in the flare whenever combustible gases are present.

Section 5.4 requires that the flare be equipped with either an automatic ignition system or operated with a continuous pilot.

Section 5.5 requires that, except for flares equipped with a flow-sensing ignition system, flares must be equipped with a device to monitor and confirm operation of the pilot flame.

The existing flare is equipped with a device to monitor and confirm operation of the pilot flame.

Section 5.6 requires that flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot must use purge gas for purging.

The existing flare does not use a flow-sensing automatic ignition system; therefore, Section 5.6 does not apply.

Section 5.7 requires open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig to be operated in such a manner that meets the provisions of 40 CFR 60.18.

The existing flare is not an open flare; therefore, the requirements of Section 5.7 do not apply to the flare.

Section 5.8 requires that ground-level enclosed flares must comply with the VOC and NO_x emission limits in Table 1 of Rule 4311 listed below, except as specified in Section 5.9 and 5.10.

Rule 4311, Table 1 – Ground Level Enclosed Flare Emissions Limits		
Type of Flare and Heat Release Rate in MMBtu/hr	VOC (lb/MMBtu)	NO_x (lb/MMBtu)
Without Steam-assist		
<10 MMBtu	0.0051	0.0952
10-100 MMBtu	0.0027	0.1330
>100 MMBtu	0.0013	0.5240
With Steam-assist		
All	0.14 as TOG	0.068

Section 5.8 requires that ground-level enclosed flares must comply with the VOC and NO_x emission limits in Table 1 of Rule 4311 listed below, except as specified in Section 5.9 and 5.10.

The proposed permit requirements for the existing 36.3 MMBtu/hr flare limit VOC emissions to no more than 0.0027 lb-VOC/MMBtu and limit NO_x emissions to no more than 0.1330 lb-NO_x/MMBtu, as required by Table 1.

Section 5.9 requires that, except for flares that meet the emission limits specified in Table 3, operators of flares located at operations specified in Table 2 shall complete one of the following options:

- 5.9.1 Submit an ATC application to limit flaring annual throughput through an enforceable Permit to Operate limit, to levels not to exceed those

specified in Table 2 for two consecutive calendar years, per the compliance schedule in Section 7.2; or

- 5.9.2 Replace or modify the existing flare to meet Table 3 emission limits per the compliance schedule in Section 7.3.

Rule 4311, Table 2 – Flare Annual Throughput Thresholds (MMBtu/calendar year)	
Flare Category	MMBtu/yr
A. Flares used at Oil and Gas Operations, and Chemical Operations	25,000
B. Flares used at Landfill Operations	90,000
C. Flares used at Digester Operations	100,000
D. Flares used at Organic Liquid Loading Operations	25,000

Rule 4311, Table 3 – VOC and NO_x Emissions Requirements for Flares		
Flare Category	VOC (lb/MMBtu)	NO_x (lb/MMBtu)
A. Flares at Oil and Gas Operations or Chemical Operations	0.008	0.018
B. Flares at Landfill Operations	0.038	0.025
C. Flares at Digester Operations (Located at a Major Source)	0.038	0.025
D. Flares at Digester Operations (Not located at a Major Source)	N/A	0.060
E. Flares at Organic Liquid Loading Operations	Pounds/1,000 gallons loaded	
	N/A	0.034

The existing 36.3 MMBtu/hr flare is used at a digester operation that is located at major source; therefore, Section 5.9 will require the existing flare to be limited to a maximum permitted annual heat input of 100,000 MMBtu/yr or will require the existing flare to be replaced with an ultra-low NO_x flare, in accordance with the compliance scheduled in Section 7.

Compliance with the applicable Flare Annual Throughput Thresholds or the applicable VOC and NO_x Emissions Requirements for Flares specified in specified in Rule 4311, Section 5.9, Table 2 will be addressed later through the submittal of an ATC application and an appropriate Title V permit modification process, in accordance with the compliance schedule specified in the rule.

Section 5.10 requires that for operators of flares that opt to comply with Section 5.9.1, any operator with a flare that exceeds the annual throughput thresholds specified in Table 2 for two consecutive calendar years shall notify the APCO in writing of the exceedance within 30 days following the end of the second

calendar year and shall replace or modify the flare to meet Table 3 emission limits per the compliance schedule in Section 7.4.

Section 5.11 - Flare Minimization Plan prohibits flaring at petroleum refineries and major sources, except landfill operations, unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5 or is caused by an emergency and is necessary to prevent an accident, hazard, or release of vent gas directly to the atmosphere.

Section 5.12 - Petroleum Refinery SO₂ Performance Targets establishes SO₂ emission reduction standards for petroleum refinery flares.

The existing flare is not located at a petroleum refinery. Therefore, this section does not apply.

Section 5.13 requires the operator of a flare at a petroleum refinery or major source, except landfill operations, subject to flare minimization requirements pursuant to Section 5.11 to monitor the vent gas flow to the flare with a flow measuring device and to maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of producing reportable flare events pursuant to Section 6.2.2 shall not be required to monitor vent gas flow to the flare.

Section 5.14 requires that on and after January 1, 2024, the operator of a flare subject to the annual throughput thresholds in Table 2 shall monitor the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. The operator shall determine the heating value (Btu per cubic foot) of the vent gas annually in accordance with Section 6.3.6. The operator shall maintain records pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of exceeding the annual throughput thresholds in Table 2 shall not be required to monitor vent gas flow to the flare.

Section 5.15 requires the operator of a petroleum refinery or a flare at a major source, except landfill operations, with a flaring capacity equal to or greater than 50 MMBtu/hr to monitor the flare pursuant to Sections 6.6, 6.7, 6.8, 6.9, and 6.10 and requires that effective on and after January 1, 2024, the operator of any flare with a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the flare pursuant to Sections 6.6, 6.7, 6.8, 6.9, and 6.10.

The existing 36.3 MMBtu/hr flare has a flaring capacity less than 50 MMBtu/hr. Therefore, this section does not apply.

Section 6.0 - Administrative Requirements

Section 6.1 – Recordkeeping requires that the following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request:

- 6.1.1 Copy of the compliance determination conducted pursuant to Section 6.4.1
- 6.1.2 Copy of the source testing result conducted pursuant to Section 6.4.2
- 6.1.3 For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation
- 6.1.4 Operators claiming an exemption pursuant to Section 5.2 shall record annual hours of operation or annual throughput necessary to demonstrate an exemption under that section
- 6.1.5 A copy of the approved flare minimization plan pursuant to Section 6.5
- 6.1.6 A copy of annual reports submitted to the APCO pursuant to Section 6.2
- 6.1.7 Monitoring data collected pursuant to Sections 5.13, 5.14, 6.6, 6.7, 6.8, 6.9, and 6.10

Section 6.2.1 – Unplanned Flaring Event requires the operator of a flare subject to flare minimization plans pursuant to Section 5.11 to notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, whichever occurs first.

Section 6.2.2 – Reportable Flaring Event requires that effective on and after July 1, 2012, and annually thereafter, except for flares meeting the emission limits in Table 3, the operator of a flare subject to flare minimization plans pursuant to Section 5.11 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined Section 3.0 that occurred during the previous 12 month period. Beginning January 1, 2024, the report shall be submitted within 30 days following the end of the previous calendar year.

Section 6.2.3 – Annual Monitoring Report requires that effective until January 1, 2024, the operator of a flare at a petroleum refinery or major source, except landfill operations, subject to flare monitoring requirements pursuant to Sections 5.13, 5.14, 6.6, 6.7, 6.8, 6.9, and 6.10, as appropriate, shall submit an annual report to the APCO within 30 days following the end of each 12 month period. Effective on and after January 1, 2024, and annually thereafter, the operator of any flare subject to flare monitoring requirements pursuant to Sections 5.13, 5.14, 6.6, 6.7, 6.8, 6.9, and 6.10, as appropriate, shall submit an annual report in an electronic format approved by the District to the APCO

within 30 days following the end of each calendar year for all required monitoring under those sections.

Section 6.3 – Test Methods specifies that the test methods listed in the following tables must be used to demonstrate compliance with Rule 4311, unless alternate equivalent test methods have been approved by the APCO and EPA.

Rule 4311 Test Methods for NO_x, VOC, O₂, and Halogenated Compounds	
Compound or Parameter Measured	Approved Test Methods
VOC, measured and calculated as carbon	EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used
Halogenated exempt compounds	EPA Method 18 or ARB Method 422 “Determination of Volatile organic Compounds in Emission from Stationary Sources”
NO _x emissions in pounds per million BTU	EPA Method 19
NO _x and O ₂ concentrations (ppmv)	EPA Method 3A, EPA Method 7E, or ARB 100

Rule 4311 Testing and Sampling Methods for Monitoring Flare Vent Gas Composition	
Compound or Parameter Measured	Approved Test Methods
Total hydrocarbon content and methane content of vent gas	ASTM Method D 1945-96, ASTM Method UOP 539-97, EPA Method 18, or EPA Method 25A or 25B
Hydrogen sulfide content of vent gas	ASTM Method D 1945-96, ASTM Method UOP 539-97, ASTM Method D 4084-94, or ASTM Method D 4810-88
Minimum sampling frequency for continuous analyzer employing gas chromatography	At least one sample every 30 minutes
Total reduced sulfur content of vent gas monitored using continuous analyzers not employing gas chromatography	EPA Method D4468-85

Rule 4311 Flare Vent Gas Flow Verification Test Methods	
Parameter Measured	Approved Test Methods
Flare vent gas flow rate	EPA Methods 1 and 2; verification method recommended by the manufacturer of the flow monitoring equipment; tracer gas dilution or velocity; or other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter

Rule 4311 Flare Gas Heating Value Test Methods	
Parameter Measured	Approved Test Methods
Heating value of flare gas	ASTM D 1826-88 or ASTM D 1945-81 in conjunction with ASTM D 3588-89; alternately, an operator may elect to use a default heating value from Rule 4311, Table 4

Rule 4311, Table 4 – Default Flare Gas Heating Values	
Flare Category	Heating Value (Btu/scf)
Flares at Oil and Gas Operations or Chemical Operations	1,000
Flares at Landfill Operations	500
Flares at Digester Operations	600

Section 6.3 specifies that the test methods listed in the following tables must be used to demonstrate compliance with Rule 4311, unless alternate equivalent test methods have been approved by the APCO and EPA.

Section 6.4 – Compliance Determination

Section 6.4.1 requires the operator of flares that are subject to Section 5.7 to make available to the APCO upon request the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5).

As discussed above, the existing flare is not an open flare; therefore, it is not subject to Section 5.7 and this section does not apply.

Section 6.4.2 requires the operator of flares subject to emission limits in Table 1 and Table 3, Categories A, B, and C shall conduct source testing at least once every 12 months to demonstrate compliance with Section 5.8. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 60 days after completion of the source testing

Section 6.5 - Flare Minimization Plan requires the operator of a petroleum refinery flare or any flare at a major source, except landfill operations, that has a flaring capacity of greater than or equal to 5.0 MMBtu per hour shall submit a flare minimization plan (FMP) to the APCO for approval and specifies requirements for operators of flares that are subject to the flare minimization plan provisions of District Rule 4311.

Section 6.6 - Vent Gas Composition Monitoring requires that, effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare at a major source, except landfill operations, that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5, as appropriate, and requires that, effective on and after January 1, 2024, the operator of any flare with a flaring capacity equal to or greater than 50 MMBtu per hour, except landfill operations, shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5, as appropriate.

The existing 36.3 MMBtu/hr flare has a flaring capacity less than 50 MMBtu/hr. Therefore, Section 6.6 does not apply.

Section 6.7 - Pilot and Purge Gas Monitoring requires that, effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare at a major source, except landfill operations, that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored, and requires that, effective on and after January 1, 2024, the operator of any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored.

The existing 36.3 MMBtu/hr flare has a flaring capacity less than 50 MMBtu/hr. Therefore, Section 6.7 does not apply.

Section 6.8 - Water Seal Monitoring requires that, effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare at a major source, except landfill operations, that has a flaring capacity equal to or greater than 50 MMBtu per hour with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate, and requires that, effective on and after January 1, 2024, the operator of any flare that has a flaring capacity equal to or greater than 50

MMBtu per hour with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate.

The existing 36.3 MMBtu/hr flare has a flaring capacity less than 50 MMBtu/hr and does not have a water seal. Therefore, this section does not apply.

Section 6.9 - General Monitoring specifies additional monitoring for petroleum refinery flares or any flares at major sources, except landfill operations, that have a flaring capacity equal to or greater than 50 MMBtu per hour, effective on and after July 1, 2011, and additional monitoring for any flares at major sources, except landfill operations, that have a flaring capacity equal to or greater than 50 MMBtu per hour, effective on and after January 1, 2024.

The existing 36.3 MMBtu/hr flare has a flaring capacity less than 50 MMBtu/hr. Therefore, this section does not apply.

Section 6.10 - Video Monitoring requires the operator of a petroleum refinery flare to install and maintain equipment that records a real-time digital image of the flare and flame at a frame rate of no less than one frame per minute. The recorded image of the flare shall be of sufficient size, contrast, and resolution to be readily apparent in the overall image or frame. The image shall include an embedded date and time stamp. The equipment shall archive the images for each 24-hour period. In lieu of video monitoring the operator may use an alternative monitoring method that provides data to verify date, time, vent gas flow, and duration of flaring events.

The existing flare is not a petroleum refinery flare. Therefore, this section does not apply.

Section 7.0 - Compliance Schedule specifies the timeframes and dates for compliance with Rule 4311 after loss of exemption, submittal of ATC applications to limit flaring throughput, submittal of ATC applications to modify or replace flares to comply with the emission limits of Rule 4311, and demonstration of compliance with emission limits.

Compliance with the any additional applicable requirements that resulted from the December 17, 2020 amendments to District Rule 4311 will be addressed later through the submittal of an ATC application and an appropriate Title V permit modification process, in accordance with the compliance schedule specified in the rule.

The following conditions of the proposed requirements for renewed Title V permit ensure compliance with this rule.

Permit Unit #	Permit Description	Condition #s
C-535-9-18	33.3 MMBtu/hr Waste Gas Flare	8-10, 12-24, 26-31, 38-39, & 43-44

E. District Rule 4320 - Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr

The purpose of this rule is to limit emissions of oxides of nitrogen (NO_x), carbon monoxide (CO), oxides of sulfur (SO₂), and particulate matter 10 microns or less (PM₁₀) from boilers, steam generators, and process heaters. This rule applies to any gaseous fuel or liquid fuel fired boiler, steam generator, or process heater with a total rated heat input greater than 5 million Btu per hour.

The October 16, 2008 version of District Rule 4320 was approved into the SIP on March 25, 2011. The rule was amended on December 17, 2020 and ARB sent the amendments to EPA for inclusion in the SIP on March 12, 2021. The December 17, 2020 amendments to District Rule 4320 added definitions to improve clarity and to reflect the changes in requirements, added additional categories of units and required lower Tier 2 NO_x emission limits for various categories, and established dates for the submission of emission control plans and ATC applications and compliance with the lower Tier 2 emission limits.

Fresno/Clovis Regional WWTP has one 16.7 MMBtu/hr natural gas and digester gas-fired boiler (Unit C-535-6-18) at the facility that is subject to the requirements of District Rule 4320. The only potential effect of the December 17, 2020 amendments to District Rule 4320 is to lower the required NO_x emission limit or reduce the maximum annual fuel input allowed for this unit.

Permit Unit C-535-6-18 is currently subject to the applicable NO_x emission limit specified in District Rule 4320, Section 5.2 – NO_x and CO Emission Limits, Table 1 - Tier 1 NO_x Emission Limits, as shown in the table below. Permit Unit C-535-503-6 is also subject to the CO limit of 400 ppmv @ 3% O₂ specified in District Rule 4320, Section 5.2 – NO_x and CO Emission Limits. The existing unit will become subject to the applicable Tier 2 NO_x limits in accordance with the compliance schedule of the rule.

Section 5.2 - NO_x and CO Emissions Limits

Section 5.2 requires that units subject to this section shall not be operated in a manner which exceeds the applicable NO_x emissions limit specified in Table 1 - Tier 1 NO_x Emissions Limits (until December 31, 2023) and Table 2 - Tier 2 NO_x Emissions Limits (on and after December 31, 2023). Section 5.2 also

requires that units subject to this section shall not be operated in a manner to which exceeds a carbon monoxide (CO) emissions limit of 400 ppmv. All ppmv emission limits specified in Section 5.2 are referenced at dry stack gas conditions and 3.00 percent by volume stack gas oxygen (O₂). Emission concentrations shall be corrected to 3.00 percent oxygen in accordance with Section 8.1.

Rule 4320, Table 1: Tier 1 NO_x Emission Limits			
Category	NO_x Limit	Authority to Construct	Compliance Deadline
A. Units with a total rated heat input > 5.0 MMBtu/hr to ≤ 20.0 MMBtu/hr, except for Categories C through G units	a) Standard Schedule 9 ppmv or 0.011 lb/MMBtu; or	July 1, 2011	July 1, 2012
	b) Enhanced Schedule 6 ppmv or 0.007 lb/MMBtu	January 1, 2013	January 1, 2014

Section 5.4 - Particulate Matter Control Requirements

Section 5.4.1 of this rule requires the operator of a unit to comply with one of the following requirements for control of particulate matter (PM):

- 1) Operators shall fire units exclusively on PUC-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases;
- 2) Operators shall limit fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or
- 3) operators shall install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight; or limit exhaust SO₂ to less than or equal to 9 ppmv corrected to 3.0% O₂

The current permit requirements for this unit require that the unit only be fired on PUC-quality natural gas or digester gas with a maximum sulfur content of 5 grains per 100 standard cubic feet (scf), and limit NO_x emissions to no more than 9 ppmv @ 3% O₂. The unit complies with all current applicable requirements of District Rule 4320. The information previously provided by the applicant included in District files indicates that this unit is a fire tube boiler; therefore, District Rule 4320 will require submittal of an emission control plan and ATC application to comply with the applicable requirements of District Rule 4320 by the deadlines specified in the rule.

Pursuant to Section 5.2, Table 2- Tier 2 NO_x Emission Limits and Section 7.0 – Compliance Schedule, an ATC application and Emission Control Plan must be submitted for this unit to comply with the applicable Tier 2 NO_x limits by May 1, 2022 and the unit must comply with the applicable Tier 2 NO_x limits by

December 31, 2023. Compliance with the applicable Tier 2 NO_x limits will be addressed later through the submittal of an ATC application and an appropriate Title V permit modification process, in accordance with the compliance schedule specified in the rule.

The following conditions of the proposed requirements for renewed Title V permit ensure compliance with this rule.

Permit Unit #	Permit Description	Condition #s
C-535-6-18	16.7 MMBtu/hr Digester Gas/Natural Gas-Fired Boiler with an Ultra-Low NO _x Burner	4, 6-7, 10-16, 18, 21-26, & 29-30

F. District Rule 4601 – Architectural Coatings

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, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating. 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.

EPA approved District Rule 4601 as amended in December 17, 2009 for inclusion in the SIP on November 8, 2011. District Rule 4601 was last amended on April 16, 2020 and ARB sent District Rule 4601 as amended in April 16, 2020 to EPA for inclusion in the SIP on April 24, 2020; however, the latest amendments have not yet been included in the SIP.

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

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>

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 will be reducing VOC content limits required for specific categories of coatings and adding VOC content limits for specific categories of colorants. The current VOC content limits of District Rule 4601 and the VOC content limits of coatings and colorants that will be effective on and after January 1, 2022 are summarized below.

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	Current 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

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

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

The following conditions of the proposed requirements of the facility-wide permit ensure compliance with this rule.

Permit Unit #	Permit Description	Condition #s
C-535-0-4	Facility-Wide Permit	23-25

G. 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 with a rated at 25 brake horsepower or greater.

The requirements of District Rule 4702 as amended November 14, 2013 were incorporated into the SIP on April 25, 2016. District Rule 4702 was subsequently amended on August 19, 2021; however, ARB has not yet submitted the August 19, 2021 amendments for inclusion into the SIP. The August 19, 2021 amendments to District Rule 4702 established more stringent NO_x limits various categories of non-emergency engines, including waste gas-fueled IC engines; cyclic loaded, field gas-fueled IC engines; limited-use IC engines, lean-burn engines used for gas compression; and spark-ignited agricultural IC engines. The amendments will also remove the specific emission requirements for lean-burn, two-stroke, gaseous-fueled engines rated greater than 50 bhp and less than 100 bhp because the District does not currently have any permitted engines in this category. Any new two-stroke, gaseous-fueled engines in this category will be required to comply with the more stringent emission limits for other types of lean burn IC engines. The August 19, 2021 amendments to District Rule 4702 also reduced the VOC emission limits required for all spark-ignited IC engines that are subject to the emission requirements of the rule, made agricultural engines subject to the SO_x requirements of the rule, and added particulate matter requirements for IC engines. The amendments also will remove the current option to pay fees rather than complying with certain emission limits in the rule. The August 19, 2021 amendments did not have any effect on the requirements for low-use

engines limited to no more than 200 hours per calendar year or emergency IC engines. These amendments also did not result in any substantive changes to the requirements for compression-ignition IC engines.

The permit for Fresno/Clovis Regional WWTP includes four diesel-fueled emergency standby IC engines powering electrical generators (Permit Units C-535-10-4, -17-4, -49-0, & -53-0), two transportable diesel-fueled emergency IC engines powering water transfer pumps (Permit Units C-535-11-4 & -12-4), one transportable diesel-fueled IC engine powering an air compressor (Permit Unit C-535-24-5), and one transportable diesel-fueled IC engine powering a pump (Permit Unit C-535-44-1). The IC engines permitted at this facility are subject to the requirements of District Rule 4702. The August 19, 2021 amendments to District Rule 4702 have no effect on the requirements for the diesel-fired IC engines at the facility. The requirements of District Rule 4702 that are applicable to the IC engines at the facility are discussed below.

Section 3.0 - Definitions

Section 3.15 provides the following definition for an Emergency Standby Engine:

Emergency Standby Engine: an internal combustion engine which operates as a temporary replacement for primary mechanical or electrical power during an unscheduled outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the operator. An engine shall be considered to be an emergency standby engine if it is used only for the following purposes: (1) periodic maintenance, periodic readiness testing, or readiness testing during and after repair work; (2) unscheduled outages, or to supply power while maintenance is performed or repairs are made to the primary power supply; and (3) if it is limited to operate 100 hours or less per calendar year for non-emergency purposes. An engine shall not be considered to be an emergency standby engine if it is used: (1) to reduce the demand for electrical power when normal electrical power line service has not failed, or (2) to produce power for the utility electrical distribution system, or (3) in conjunction with a voluntary utility demand reduction program or interruptible power contract.

Section 4.0 - Exemptions

Pursuant to Section 4.2, except for the requirements of Sections 5.10 and 6.2.3, the requirements of Rule 4702 shall not apply to an emergency standby engine or a low-use engine, provided that the engine is operated with a functional nonresettable elapsed time meter or an alternative device, method, or technique to determine operating time, provided that the alternative is approved by the APCO and EPA and is allowed by the Permit-to-Operate or Permit-Exempt

Equipment Registration. The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

Pursuant to Section 4.3.1, except for the administrative requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as a fire or flood and except for these operations is limited to operate no more than 100 hours per calendar year for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine as determined by an operational nonresettable elapsed time meter or an alternative device, method, or technique to determine operating time that is approved by the APCO and EPA. The operator of the engine shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

5.2.4 - Certified Compression-Ignited Engines (AO and non-AO)

Section 5.2.4 requires the operator of a certified compression-ignited engine rated >50 bhp shall comply with the following requirements of Sections 5.2.4.1, 5.2.4.2, 5.2.4.3, 5.2.4.4, and 5.2.4.5.

Section 5.2.4.1 requires the operator of a certified compression-ignited non-emergency engine rated >50 bhp to repower, replace, or control the engine's emissions to comply with the applicable limits/standards in Table 6 of Rule 4702 on an engine-by-engine basis by the compliance dates as specified in Rule 4702, Table 6, shown below.

Rule 4702, Table 6: Emission Limits/Standards and Compliance Schedule for Compression-Ignited Internal Combustion Engine		
Engine Type	Emission Limit/Standard	Compliance Date
1. Non-Certified Compression-Ignited Engine Installed on or before January 1, 2015		
a. Greater than 50 bhp but not more than 500 bhp	EPA Tier 3 or Tier 4	1/1/2010
b. Greater than 500 bhp but not more than 750 bhp and less than 1,000 annual operating hours	EPA Tier 3	1/1/2010
c. Greater than 750 bhp and less than 1,000 annual operating hours	EPA Tier 4	7/1/2011
2. Certified Compression-Ignited Engine		
a. EPA Certified Tier 1 or Tier 2 Engine	EPA Tier 4	1/1/2015 or 12 years after installation date, but not later than 6/1/2018

Rule 4702, Table 6: Emission Limits/Standards and Compliance Schedule for Compression-Ignited Internal Combustion Engine		
Engine Type	Emission Limit/Standard	Compliance Date
b. EPA Certified Tier 3 or Tier 4 Engine	Meet Certified Compression-Ignited Engine Standard in effect at time of installation	At time of installation

The permit for Fresno/Clovis Regional WWTP includes one transportable 125 bhp Tier 3 certified diesel-fueled non-emergency IC engine powering an air compressor (Permit Unit C-535-24-5), and one transportable 74 bhp Tier 4 certified diesel-fueled non-emergency IC engine powering a pump (Permit Unit C-535-44-1). The non-emergency IC engines permitted at the facility are certified to the applicable standards required by Rule 4702, Table 6.

Section 5.2.4.2 requires the operator of a certified compression-ignited engine rated >50 bhp to determine the annual hours of operation on a calendar year basis.

Section 5.2.4.3 allows that in lieu of complying with the NO_x, CO, and VOC limits of Table 4 on an engine-by-engine basis, an operator may elect to implement an alternative emission control plan (AECPP) pursuant to Section 8.0.

The engines at the facility do not use of an Alternate Emission Control Plan to comply with Section 5.2; therefore this section of the rule is not applicable.

Section 5.2.4.4 requires that an operator of an agricultural operation (AO) compression-ignited engine that is subject to the applicable requirements of Table 4 shall not replace such engine with an engine that emits more emissions of NO_x, VOC, and CO, on a ppmv basis, (corrected to 15% oxygen on a dry basis) than the engine being replaced.

The IC engines at the facility are not agricultural engines; therefore, this section of the rule is not applicable.

Section 5.2.4.5 requires that compression-ignited engines shall be operated in such a manner to comply with the SO_x control requirements of Section 5.7 and the SO_x monitoring requirements of Section 5.10.

Section 5.7 - Sulfur Oxides (SO_x) Emission Control Requirements

Section 5.7 requires that on and after the compliance schedule specified in Section 7.0, operators of spark-ignited engines and compression-ignited engines shall comply with one of the following requirements of Sections 5.7.1 through 5.7.7.

- 5.7.1 Operate the engine exclusively on California Public Utilities Commission (PUC)-quality natural gas, commercial propane, butane, or liquefied petroleum gas, or a combination of such gases; or
- 5.7.2 Limit gaseous fuel sulfur content to no more than five (5) grains of total sulfur per one hundred (100) standard cubic feet; or
- 5.7.3 Use California Reformulated Gasoline for gasoline-fired spark-ignited engines; or
- 5.7.4 Use California Reformulated Diesel for compression-ignited engines; or
- 5.7.5 Operate the engine on liquid fuel that contains no more than 15 ppm sulfur, as determined by the test method specified in Section 6.4.6; or
- 5.7.6 Install and properly operate an emission control system that reduces SO₂ emissions by at least 95% by weight as determined by the test method specified in Section 6.4.6.
- 5.7.7 For AO IC engines fueled with digester gas installed before 12/31/2021, limit fuel sulfur content to no more than 250 ppmv. For AO IC engines fueled with digester gas installed on or after 12/31/2021, units must comply with Section 5.7.2 or 5.7.6, above.

All of the engines permitted at the facility are compression-ignition engines that are required to use California Reformulated Diesel that contains no more than 15 ppm sulfur by weight.

Section 5.8 - Particulate Matter (PM) Emission Control Requirements

Section 5.8 requires that on and after the compliance schedule specified in Section 5.2.4 and 7.0, operators of engines subject to this rule shall limit emissions of particulate matter through compliance with the following requirements:

- 5.8.1 Spark-ignited engines shall comply with the requirements of Section 5.7.
- 5.8.2 Compression-ignited engines shall comply with the applicable CARB/EPA Tier certification standard per Table 6.

Section 5.9 - Monitoring Requirements: Non-AO Spark-Ignited Engines and Engines in an AECP (Section 8.0)

Section 5.9 requires that the operator of a non-agricultural spark-ignited IC engine subject to the Emission requirements of Section 5.2 or any engine subject to the Alternative Emission Control Plan (AECP) requirements of Section 8.0 shall comply with the requirements of Sections 5.9.1 – 5.9.11.

All of the engines permitted at the facility are compression-ignited IC engines and no engines at the facility use an Alternate Emission Control Plan; therefore, this section is not applicable.

Section 5.10 - Monitoring Requirements: All Other Engines

Section 5.10 specifies monitoring requirements for all other engines that are not subject to the requirements of Section 5.9.

Pursuant to Section 5.10.1, the operator of any of the following engines shall comply with the requirements specified in Section 5.10.2 through Section 5.10.5 below.

- 1) An AO spark-ignited engine subject to the requirements of Section 5.2;
- 2) A compression-ignited engine subject to the requirements of Section 5.2;
- or
- 3) An engine subject to Section 4.2.

Section 5.10.2 requires operators of engines to subject to Section 5.10 to properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.

Section 5.10.3 requires operators of engines to subject to Section 5.10 to monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.

Section 5.10.4 requires the installation of a functional nonresettable elapsed time meter or use of an alternative device, method, or technique to determine operating time provided that the alternative is approved by the APCO and EPA and is allowed by a Permit-to-Operate or Permit-Exempt Equipment Registration condition. The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

Section 5.10.5 requires all agricultural spark-ignited engines and compression-ignited engines that have been retro-fitted with a NO_x exhaust control, except certified spark-ignited engines, engines certified per Section 9.0, and certified compression-ignited engines to use a portable analyzer to take NO_x and CO emission readings and oxygen (O₂) concentration readings to demonstrate compliance with the emission requirements of Section 5.2.

Section 5.10.5 does not apply to emergency standby engines or a low-use engines because they are not subject to the requirements of Section 5.2. In addition, Section 5.10.5 does not apply to certified IC engines.

Section 5.11 - SO_x Emissions Monitoring Requirements

Section 5.11 requires that on and after the compliance schedules specified in Section 7.0, an operator of an engine shall comply with the following requirements:

- 5.11.1 An operator of an engine complying with Sections 5.7.2, 5.7.5, or Section 5.7.7 shall perform an annual fuel sulfur analysis in accordance with the test methods in Section 6.4. The operator shall keep the records of the fuel analysis and shall provide it to the District upon request,
- 5.11.2 An operator of an engine complying with Section 5.7.6 by installing and operating a control device with at least 95% by weight SO_x reduction efficiency shall submit for approval by the APCO the proposed key system operating parameters and frequency of the monitoring and recording not later than July 1, 2013, and
- 5.11.3 An operator of an engine complying with Section 5.7.6 shall perform an annual source test unless a more frequent sampling and reporting period is included in the Permit-to-Operate. Source tests shall be performed in accordance with the test methods in Section 6.4.

All of the engines permitted at the facility are compression-ignition engines that are required to use California Reformulated Diesel; therefore, this section does not apply.

5.12 - Permit-Exempt Equipment Registration Requirements

Section 5.12 requires operators of engines used exclusively in agricultural operations that are not required to have a Permit-to-Operate pursuant to California Health and Safety Code Section 42301.16 but are required to comply with Section 5.2 of Rule 4702 shall register such engines pursuant to Rule 2250 (Permit-Exempt Equipment Registration).

The IC engines at the facility are non-agricultural IC engines that are subject District permitting requirements; therefore, this section of the rule is not applicable.

6.0 Administrative Requirements

Section 6.2 - Recordkeeping

Section 6.2.1 requires that the operator of an engine subject to the requirements of Section 5.2 of this rule shall maintain an engine operating log to demonstrate compliance with this rule. This information shall be retained for a period of at least five years, shall be readily available, and be made available to the APCO

upon request. The engine operating log shall include, on a monthly basis, the following information:

- 6.2.1.1 Total hours of operation,
- 6.2.1.2 Type of fuel used,
- 6.2.1.3 Maintenance or modifications performed,
- 6.2.1.4 Monitoring data,
- 6.2.1.5 Compliance source test results, and
- 6.2.1.6 Any other information necessary to demonstrate compliance with this rule.
- 6.2.1.7 For an engine subject to Section 8.0, the quantity (cubic feet of gas or gallons of liquid) of fuel used on a daily basis.

Section 6.2.2 requires the data collected pursuant to the requirements of Section 5.9 and Section 5.10 shall be maintained for at least five years, shall be readily available, and made available to the APCO upon request.

Section 6.2.3 requires that an operator claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following:

- 6.2.3.1 Total hours of operation,
- 6.2.3.2 The type of fuel used,
- 6.2.3.3 The purpose for operating the engine,
- 6.2.3.4 For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and
- 6.2.3.5 Other support documentation necessary to demonstrate claim to the exemption.

The following conditions of the proposed requirements for the draft renewed Title V permit ensure compliance with this rule.

Permit Unit #	Permit Description	Condition #s
C-535-10-4	2,307 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	2, 7-11, & 18-20
C-535-11-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	2 & 7-13
C-535-12-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	2 & 7-13
C-535-17-4	455 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3, 7-11, & 18-20

Permit Unit #	Permit Description	Condition #s
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	3, 6, 9-12, & 16
C-535-44-1	Transportable 74 bhp Diesel Engine Powering a Pump	3, 6, 9, 11-13, & 17
C-535-49-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3 and 7-14
C-535-53-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3 and 7-14

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

The purpose of 40 CFR 60 Subpart IIII is to establish New Source Performance Standards (NSPS) to reduce emissions of NO_x, SO_x, PM, CO, and VOC from new stationary compression ignition (CI) internal combustion (IC) engines.

This regulation has been amended three times since the facility's Title V permit was last amended on June 16, 2016 – on July 7, 2016 (81 FR 44219), December 4, 2020 (85 FR 78463), and June 29, 2021 (86 FR 34357).

The July 7, 2016 amendments allowed manufacturers of certified non-road engines to give operators the means to temporarily override emission control inducements during qualified emergency situations, such as those where operation of the engine is needed to protect human life. Most Tier 4 Final certified IC engines are equipped with selective catalytic reduction (SCR) systems that typically require the use of a solution of urea in water known as diesel exhaust fluid (DEF) as a reactant to reduce NO_x. These engines generally include controls that limit the function of the engines if they are operated without DEF, or if the engine's electronic control module cannot confirm that the SCR system is properly operating. The amendments aligned the NSPS with the provisions of 40 CFR 1039.665 that allow engine manufacturers to include a dormant feature in the engine's control software that could be activated to override emission control inducements for up to 120 hours per use during a qualified emergency situation. After 120 hours of cumulative operation without emission control inducements, the permission of the manufacturer and specific procedures are required to allow another 120 hours of operation with emission control inducements overridden. These amendments did not affect the requirements for emergency IC engines in 40 CFR 60 Subpart IIII since the regulation does not require emergency engines to utilize SCR or other add-on controls. The July 7, 2016 amendments also aligned the definition of remote areas of Alaska in this NSPS with the definition used in 40 CFR part 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal

Combustion Engines. The change to the definition of remote areas in Alaska had no effect on the requirements for engines outside Alaska.

EPA indicated that the purpose of the EPA action that resulted in the December 4, 2020 amendments to this NSPS was to update many of EPA's existing gasoline, diesel, and other fuel quality programs to improve overall compliance assurance and maintain environmental performance, while reducing compliance costs for industry and EPA. The EPA action removed expired provisions, eliminated redundant compliance provisions, removed unnecessary and out-of-date requirements and replaced them with a single set of provisions and definitions that applies to all gasoline, diesel, and other fuel quality programs. EPA's action and the associated amendments did not change the stringency of the fuel quality standards. The amendments to 40 CFR 60 Subpart IIII removed an outdated reference to 40 CFR 80.510 for diesel fuel requirements and replaced it with the current reference to 40 CFR 1090.305 and updated the language limiting the maximum sulfur content of diesel fuel used in compression ignition IC engines subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder without changing the requirement. The December 4, 2020 amendments did not change any requirements of 40 CFR 60 Subpart IIII.

The June 29, 2021 amendments to this subpart were the result of EPA's action to remove references to outdated legacy parts for engine certification and replace them with the new regulatory parts in subchapter U (e.g. replacing reference to 40 CFR part 89 with 40 CFR part 1039), or to copy referenced text directly into 40 CFR part 60. EPA stated "*most of the changes for stationary engines in 40 CFR part 60 are intended to update references without changing standards or other provisions.*" The June 29, 2021 amendments included three more substantive changes. The first change allowed all manufacturers of emergency stationary IC engines to certify the engines using assigned deterioration factors. The second change is allow manufacturers of stationary spark-ignition IC engines to certify engines using the procedures in 40 CFR part 1054. The third change is to allow manufactures to use any of the VOC measurement methods that are specified for highway or nonroad engines in 40 CFR part 1065, subpart C. The June 29, 2021 amendments to this subpart did not affect the requirements for operators of IC engines that are subject to this regulation.

As stated above, the permit for Fresno/Clovis Regional WWTP includes four diesel-fueled emergency standby IC engines powering electrical generators (Permit Units C-535-10-4, -17-4, -49-0, & -53-0), two transportable diesel-fueled emergency IC engines powering water transfer pumps (Permit Units C-535-11-4 & -12-4), one transportable diesel-fueled IC engine powering an air compressor (Permit Unit C-535-24-5), and one transportable diesel-fueled IC engine powering a pump (Permit Unit C-535-44-1). However, Permit Units C-

535-10-4, 11-4, -12-4, and -17-4 were all manufactured and installed prior to the date for which this regulation would apply to the engines and have not been reconstructed. In addition, Permit Units C-535-11-4, -12-4, -24-5, and -44-1 are transportable IC engines and this regulation only applies to stationary IC engines. Therefore, the only IC engines at the facility that are subject to 40 CFR 60 Subpart IIII are Permit Units C-535-49-0 and -53-0 (247 bhp diesel-fueled IC emergency IC engines). The requirements of 40 CFR 60 Subpart IIII that apply to Permit Units C-535-49-0 and -53-0 are summarized below.

§ 60.4200 Am I subject to this subpart?

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

- 1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:
 - (i) 2007 or later, for engines that are not fire pump engines;
 - (ii) The model year listed in Table 3 to this subpart or later model year, for fire pump engines.
- 2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:
 - (i) Manufactured after April 1, 2006, and are not fire pump engines, or
 - (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
- 3) Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.
- 4) The provisions of Section 60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

§ 60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?

- (a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump

engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

- (1) For engines with a maximum engine power less than 37 KW (50 HP):
 - (i) The Tier 2 emission standards for new nonroad CI engines for the appropriate rated power as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 for model year 2007 engines; and
 - (ii) The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.
- (2) For engines with a rated power greater than or equal to 37 KW (50 HP), the Tier 2 or Tier 3 emission standards for new nonroad CI engines for the same rated power as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105 beginning in model year 2007.

Table 2 to 40 CFR Part 1039, Appendix I – Tier 2 Emission Standards for Engines > 560 kW (g/kW-hr)				
Rated power (kW)	Starting model year	NO_x+NMHC	CO	PM
kW > 560	2006	6.4	3.5	0.20

Table 3 to 40 CFR Part 1039, Appendix I – Tier 3 Emission Standards (g/kW-hr)				
Rated power (kW)	Starting model year	NO_x+NMHC	CO	PM
37 ≤ kW < 75	2008	4.7	5.0	0.40
75 ≤ kW < 130	2007	4.0	5.0	0.30
130 ≤ kW < 560	2006	4.0	3.5	0.20

- (b) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (b)(1) through (2) of this section.
 - (1) For 2007 through 2010 model years, the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.
 - (2) For 2011 model year and later, the Tier 2 emission standards as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105.

(c) [Reserved]

- (d) Beginning with the model years in table 3 to this subpart, stationary CI internal combustion engine manufacturers must certify their fire pump stationary CI ICE to the emission standards in table 4 to this subpart, for all pollutants, for the same model year and NFPA nameplate power.
- (e) Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE that are not fire pump engines to the appropriate Tier 2 emission standards for new marine CI engines as described in 40 CFR part 1042, appendix I, for all pollutants, for the same displacement and rated power:
- (1) Their 2007 model year through 2012 emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;
 - (2) Their 2013 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder;
 - (3) Their 2013 model year emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder; and
 - (4) Their 2014 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

§ 60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

- (a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in Table 1 to this subpart. Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the Tier 1 emission standards in 40 CFR part 1042, appendix I.
- (b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in § 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.

- (c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.
- (e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in § 60.4212.
- (f) Owners and operators of any modified or reconstructed emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed CI ICE that are specified in paragraphs (a) through (e) of this section.

Table 4 to Subpart IIII of Part 60 - Emission Standards for Stationary Fire Pump Engines				
[As stated in §§ 60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]				
Maximum Engine Power	Model year(s)	NMHC + NO_x	CO	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011 +	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011 +	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011 +	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011 + ¹	4.7 (3.5)		0.40 (0.30)
56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011 + ¹	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010 + ²	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009 + ³	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009 + ³	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009 +	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008 +	6.4 (4.8)		0.20 (0.15)

¹ For model years 2011-2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

² For model years 2010-2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

³ In model years 2009-2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in Sections 60.4204 and 60.4205 over the entire life of the engine.

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) [Reserved]

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

(c) [Reserved]

(d) Beginning June 1, 2012, owners and operators of stationary CI ICE subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder must use diesel fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm).

(e) Stationary CI ICE that have a national security exemption under § 60.4200(d) are also exempt from the fuel requirements in this section.

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in § 60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

- (a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:
- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - (2) Change only those emission-related settings that are permitted by the manufacturer; and
 - (3) Meet the requirements of 40 CFR part 1068, as they apply to you.
- (c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in § 60.4204(b) or § 60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in § 60.4205(c), you must comply by purchasing an engine certified to the emission standards in § 60.4204(b), or § 60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.
- (f) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE 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 (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) 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 ICE in emergency situations.
 - (2) You may operate your emergency stationary ICE 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 paragraph (f)(3) of this section

counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

- (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
 - (ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - (iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (3) Emergency stationary ICE 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. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
- (g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:
- (1) If you are an owner or operator of a stationary CI internal combustion engine with maximum engine power less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to

demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if you do not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

- (2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.
 - (3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.
- (h) The requirements for operators and prohibited acts specified in 40 CFR 1039.665 apply to owners or operators of stationary CI ICE equipped with AECDs for qualified emergency situations as allowed by 40 CFR 1039.665.

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

- (b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

As discussed above, the requirements of 40 CFR 60 Subpart IIII do not apply to the engines listed in the following table because they were manufactured and installed prior to the date for which this regulation would apply to the engines and have not been reconstructed and/or they are transportable rather than stationary IC engines.

Permit Unit #	Permit Description	Reason 40 CFR 60 Subpart IIII Does Not Apply
C-535-10-4	2,307 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	Manufactured and installed before date subpart applies
C-535-11-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	Manufactured and installed before date subpart applies and Not stationary
C-535-12-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	Manufactured and installed before date subpart applies and Not stationary
C-535-17-4	455 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	Manufactured and installed before date subpart applies
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	Not Stationary
C-535-44-1	Transportable 74 bhp Diesel Engine Powering a Pump	Not Stationary

The following conditions of the proposed requirements for the draft renewed Title V permit ensure compliance with this regulation.

Permit Unit #	Permit Description	Condition #s
C-535-49-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3-7 & 11-14
C-535-53-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3-7 & 11-14

I. 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

40 CFR 63 Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

This regulation has been amended twice since the facility's Title V permit was last amended on June 16, 2016 – on November 19, 2020 (85 FR 73912) and December 4, 2020 (85 FR 78463).

EPA stated that the November 19, 2020 amendments implemented the plain language reading of the “major source” and “area source” definitions of section 112 of the Clean Air Act (CAA) and allowed that a major source can be reclassified to area source status at any time upon reducing its potential to emit (PTE) hazardous air pollutants (HAP) to below the major source thresholds (MST) of 10 tons per year (tpy) of any single HAP and 25 tpy of any combination of HAPs. The amendments also clarified the compliance dates, notification, and recordkeeping requirements that apply to sources choosing to reclassify to area source status and to sources that revert back to major source status, including a requirement for electronic notification and reporting.

EPA indicated that the purpose of the EPA action that resulted in the December 4, 2020 amendments to this NESHAP was to update many of EPA's existing gasoline, diesel, and other fuel quality programs to improve overall compliance assurance and maintain environmental performance, while reducing compliance costs for industry and EPA. The EPA action removed expired provisions, eliminated redundant compliance provisions, removed unnecessary and out-of-date requirements and replaced them with a single set of provisions and definitions that applies to all gasoline, diesel, and other fuel quality programs. EPA's action and the associated amendments did not change the stringency of the fuel quality standards. The amendments to 40 CFR 63 Subpart ZZZZ removed an outdated reference to 40 CFR 80.510 for diesel fuel requirements and replaced it with the current reference to 40 CFR 1090.305. The December 4, 2020 amendments did not change any requirements of 40 CFR 63 Subpart ZZZZ.

The permit for Fresno/Clovis Regional WWTP includes four diesel-fueled emergency standby IC engines powering electrical generators (Permit Units C-535-10-4, -17-4, -49-0, & -53-0), two transportable diesel-fueled emergency IC engines powering water transfer pumps (Permit Units C-535-11-4 & -12-4), one transportable diesel-fueled IC engine powering an air compressor (Permit Unit C-535-24-5), and one transportable diesel-fueled IC engine powering a pump (Permit Unit C-535-44-1). However, Permit Units C-535-11-4, -12-4, -24-5, and -44-1 are transportable IC engines and this regulation only applies to stationary IC engines. In addition and as explained above, Permit Units C-535-49-0 and -53-0 are subject to the requirements of 40 CFR 60 Subpart IIII. Pursuant to Section 63.6590 (c), these IC engines satisfy the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines and no further requirements apply for to the engines under this subpart. Therefore, the only IC engines at the facility that are subject to 40 CFR 63 Subpart ZZZZ are Permit Units C-535-10-4 (2,307 bhp diesel-fueled emergency IC engine) and C-535-17-4 (455 bhp diesel-fueled emergency IC engine). The requirements of 40 CFR 63 Subpart ZZZZ that apply to the engines at the facility are summarized below.

Section 63.6580 Purpose

40 CFR 63 Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

Section 63.6585 Am I subject to this subpart?

This subpart applies to owners and operators of stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

Pursuant to Section 63.6585(f), the emergency stationary RICE listed in paragraphs (f)(1) through (3) of this section are not subject to this subpart. The stationary RICE must meet the definition of an emergency stationary RICE in Section 63.6675, which includes operating according to the provisions specified in Section 63.6640(f).

- (1) Existing residential emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Section 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in Section 63.6640(f)(4)(ii).

- (2) Existing commercial emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Section 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in Section 63.6640(f)(4)(ii).
- (3) Existing institutional emergency stationary RICE located at an area source of HAP emissions that do not operate or are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Section 63.6640(f)(2)(ii) and (iii) and that do not operate for the purpose specified in Section 63.6640(f)(4)(ii).

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

This subpart applies to each affected source.

(a) **Affected source.** An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) **Existing stationary RICE.**

- (i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.
- (ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.
- (iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) **New stationary RICE.**

- (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.
- (ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

- (iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

This facility is an area source of HAP emissions, since almost all of the HAPs at the facility are expected to be VOCs and the facility is not a major source for VOC emissions.

Permit Units C-535-10-4 and -17-4 are existing stationary RICEs as defined in this subpart because construction or reconstruction commenced for the engines before June 12, 2006.

Permit Units C-535-49-0 and -53-0 are new stationary RICEs as defined in this subpart because construction or reconstruction commenced for the engine on or after June 12, 2006.

(c) ***Stationary RICE subject to Regulations under 40 CFR Part 60.***

An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this 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. No further requirements apply for such engines under this part.

- (1) A new or reconstructed stationary RICE located at an area source;
- (2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;
- (4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;
- (5) 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 which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

- (7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

As explained above, Units C-535-49-0 and -53-0 are subject to 40 CFR 60 subpart IIII and are therefore not required to meet the requirements of this subpart.

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

(a) ***Affected sources.***

- (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI 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 CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI 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 SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.

§ 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?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in § 63.6620 and Table 4 to this subpart.

- (a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.

Table 2d to Subpart ZZZZ of Part 63 - Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

The following table includes requirements that apply to the existing emergency stationary CI RICE at the facility:

Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions		
For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
4. Emergency stationary CI RICE and black start stationary CI RICE. ²	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; ¹ b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

¹ Sources have the option to utilize an oil analysis program as described in Section 63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.

² If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

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

(b) Beginning January 1, 2015, if you own or operate an 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), you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

§ 63.6605 What are my general requirements for complying with this subpart?

- (a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.
- (b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

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

- (e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan 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:
 - (1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;
 - (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;
 - (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (f) If you own or operate 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, you must install a non-resettable hour meter if one is not already installed.

- (h) If you operate a new, reconstructed, or existing stationary engine, you 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.
- (i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

§ 63.6635 How do I monitor and collect data to demonstrate continuous compliance?

- (a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.
- (b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

- (c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

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

- (a) You must demonstrate 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 to you according to methods specified in Table 6 to this subpart.
- (b) You must report each instance in which you 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 you. 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 you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.
- (f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE 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 you do not operate the engine 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) You may operate your emergency stationary RICE 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).

- (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
 - (ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see § 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
 - (iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- (4) Emergency stationary RICE located at area sources 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. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Applicable Requirements from Table 6 to Subpart ZZZZ of Part 63 - Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices for Stationary RICE		
For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
<p>9. Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency stationary SI RICE located at an area source of HAP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are remote stationary RICE</p>	<p>a. Work or Management practices</p>	<p>i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or</p> <p>ii. Develop and follow your own maintenance plan 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.</p>

§ 63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in § 63.10(b)(2)(xiv).

- (2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.
 - (3) Records of performance tests and performance evaluations as required in § 63.10(b)(2)(viii).
 - (4) Records of all required maintenance performed on 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.
- (d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.
- (e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;
- (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.
- (f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the

emergency situation, and the date, start time, and end time of engine operation for these purposes.

- (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.

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

- (a) Your 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), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record 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).

As discussed above, the requirements of 40 CFR 63 Subpart ZZZZ do not apply to the engines listed in the following table because they are transportable rather than stationary IC engines or because they are new engines that are defined in this subpart that are subject to regulation under 40 CFR 60 Subpart IIII.

Permit Unit #	Permit Description	Reason 40 CFR 63 Subpart ZZZZ Does Not Apply
C-535-11-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	Not Stationary
C-535-12-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	Not Stationary
C-535-24-5	Transportable 125 bhp Diesel Engine Powering an Air Compressor	Not Stationary
C-535-44-1	Transportable 74 bhp Diesel Engine Powering a Pump	Not Stationary

Permit Unit #	Permit Description	Reason 40 CFR 63 Subpart ZZZZ Does Not Apply
C-535-49-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	New engine regulated under 40 CFR 60 Subpart IIII
C-535-53-1	247 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	New engine regulated under 40 CFR 60 Subpart IIII

The following conditions of the proposed requirements for the draft renewed Title V permit ensure compliance with this regulation.

Permit Unit #	Permit Description	Condition #s
C-535-10-4	2,307 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	2, 7-8, 12-18, 20
C-535-17-4	455 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	3, 7-8, 12-18, 20

J. 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

a. C-535-6-18: 16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS/NATURAL GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA-LOW NOX BURNER AND SULFATREAT DIGESTER GAS TREATMENT SYSTEM

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

b. C-535-9-18: 36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE

The waste gas flare is used as a combustion device to prevent digester gas (a highly flammable and explosive gas) produced at the facility from being emitted directly to the atmosphere. The permit for the waste gas flare includes emission limits for NO_x, SO_x, PM₁₀, CO, and VOC from the combustion of the waste gas in the flare. The waste gas flare is not equipped with any add-on controls for any pollutant. The waste gas can contain small amounts of VOCs. Therefore, it will conservatively be assumed that the flare is a control device for VOC emissions in the waste gas. The flare is not a control device for NO_x, SO_x, PM₁₀, or CO emissions. Therefore, the CAM requirements of 40 CFR 64 are not applicable for these pollutants.

The permit requirements for the flare require annual testing of the NO_x and VOC emissions from the flare, which includes an analysis of the composition of the waste gas. Based on the April 14, 2021 analysis of the waste gas composition, the maximum VOC content of the waste gas combusted in the flare is assumed to be approximately 0.01% by weight and the specific volume of the digester gas is estimated to be 14.5 ft³/lb. Therefore, the pre-controlled potential VOC emissions from the waste gas are calculated as follows:

Pre-Control Potential VOC Emissions from Waste Gas

Maximum amount of gas flared: 1,584,000 scf/day (current permit)

Maximum amount of gas that can be combusted in the flare each year:
1,584,000 scf/day x 365 day/year = 578,160,000 scf/year

Maximum Annual Pre-Control VOC Emissions:
578,160,000 ft³/year x 0.0001 lb-VOC/lb ÷ 14.5 ft³/lb = 3,987 lb-VOC/yr

As shown above, the pre-control potential to emit for VOC from this permit unit does not exceed the applicable major source threshold for this pollutant. Therefore, this permit unit is not subject to CAM for VOC.

- c. C-535-10-4: 2307 BHP CATERPILLAR MODEL 3516 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

- d. C-535-11-4: TRANSPORTABLE 140 BHP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #1 POWERING A WATER TRANSFER PUMP

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

- e. C-535-12-4: TRANSPORTABLE 140 BHP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #2 POWERING A WATER TRANSFER PUMP

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

- f. C-535-13-8: 150 ELECTRIC HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON

The permit for this unit does not include any emission limits for NO_x, SO_x, PM₁₀, or CO; therefore, the CAM requirements of 40 CFR 64 are not applicable for these pollutants. The permit unit includes a limit for VOC emissions. It will conservatively be assumed that the scrubbers for the odor control system also act as control devices for VOC emissions. The pre-controlled potential VOC emissions from the unit are calculated below.

Unit C-535-13 was originally permitted under District Project C-960372. District project C-960372 indicated that the uncontrolled VOC emissions from the headworks area were 0.25 lb per million gallons; this value was based on a 1993 source test for VOC emissions from the headworks at the Coachella Valley Water District Publically Owned Treatment Works. The pre-control emissions from the unit are calculated below.

Pre-Control Potential VOC Emissions from Waste Gas

Maximum influent flow rate through headworks:
106,000,000 gal/day (current permit)

Maximum annual influent flow rate through headworks:
106,000,000 gal/day x 365 day/year = 3.869×10^{10} gal/year

Maximum Annual Pre-Control VOC Emissions:
 $0.25 \text{ lb}/10^6 \text{ gal} \times 3.869 \times 10^{10} \text{ gal/year} = 9,673 \text{ lb-VOC/year}$

As shown above, the pre-control potential to emit for VOC from this permit unit does not exceed the applicable major source threshold for this pollutant. Therefore, this permit unit is not subject to CAM for VOC.

g. C-535-17-4: 455 BHP CUMMINS MODEL NTA855 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

h. C-535-24-5: TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AIR COMPRESSOR

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

i. C-535-26-7: DIGESTER GAS TREATMENT SYSTEM CONSISTING OF A CHILLER; COMPRESSOR; HYDROGEN SULFIDE REMOVAL UNIT; MEMBRANE PROCESSING UNIT; A 7.46 MMBTU/HR JOHN ZINK MODEL ZBRID WASTE GAS COMBUSTION DEVICE USING RAW DIGESTER GAS OR PUC-QUALITY NATURAL GAS AS SUPPLEMENTAL FUEL; AND ACTIVATED CARBON ADSORPTION BEDS

The digester gas treatment system includes a waste gas combustion device and activated carbon canisters to prevent digester gas from being emitted directly to the atmosphere and to reduce potential odors. The permit for the digester gas treatment system includes emission limits for NO_x, SO_x, PM₁₀, CO, and VOC from the combustion of the waste gas in the waste gas combustion device. The waste gas can contain small amounts of VOCs.

Therefore, it will be assumed that the waste gas combustion device is a control device for VOC emissions in the waste gas. The digester gas treatment system is not a control device for NO_x, SO_x, PM₁₀, or CO emissions. Therefore, the CAM requirements of 40 CFR 64 are not applicable for these pollutants.

The permit requirements for the digester gas treatment system require periodic testing of the NO_x and CO emissions from the waste gas combustion device, which includes an analysis of the composition of the digester gas. Based on the October 17, 2018 analysis of the digester gas composition, the VOC content of the raw digester gas processed in the digester gas treatment system is less than 0.01% by weight, the raw digester gas had a higher heating value of approximately 647 Btu per dry standard cubic foot (dscf), and the specific volume of the digester gas was approximately 14.7 ft³/lb. The maximum VOC content of the digester gas combusted in the waste gas combustion device will be conservatively assumed to be 0.005% by weight. The pre-controlled potential VOC emissions from this unit are calculated as follows:

Pre-Control Potential VOC Emissions from Digester Gas Treatment System

Maximum Heat Input of Waste gas combustion device:

$$7.46 \text{ MMBtu/hr} \times 10^6 \text{ Btu/MMBtu} \times 24 \text{ hr/day} \times 365 \text{ day/year} \\ = 6.53496 \times 10^6 \text{ Btu/year}$$

Maximum amount of gas that can be combusted in the flare each year:

$$6.53496 \times 10^6 \text{ Btu/year} \div 647 \text{ Btu/scf} = 101,004,019 \text{ scf/year}$$

Maximum Annual Pre-Control VOC Emissions:

$$101,004,019 \text{ ft}^3/\text{year} \times 0.00005 \text{ lb-VOC/lb} \div 14.7 \text{ ft}^3/\text{lb} = 344 \text{ lb-VOC/yr}$$

As shown above, the pre-control potential to emit for VOC from this permit unit does not exceed the applicable major source threshold for this pollutant. Therefore, this permit unit is not subject to CAM for VOC.

j. UNCONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB SARACCO NATIONAL BOARD #34188 BLASTING POT (POWERED BY ENGINE PERMITTED UNDER C-535-24)

This abrasive operation does not include any federally enforceable requirements that are part of the Title V Permit. This permit unit does not have emission limits for any pollutant that would cause the unit to be subject to these requirements and is not equipped with any add-on controls for any pollutant. Therefore, this permit unit is not subject to CAM.

k. TRANSPORTABLE 74 BHP JOHN DEERE MODEL 4045TFC03 TIER 4 FINAL CERTIFIED DIESEL-FIRED IC ENGINE POWERING A PUMP

The permit for this unit includes emission limits for NO_x, PM₁₀, CO, and VOC, and limits the sulfur in the fuel to limit SO_x. The engine does not include any add-on on emission controls for NO_x or SO_x; therefore, the CAM requirements of 40 CFR 64 are not applicable for NO_x or SO_x. The Tier 4 final certified diesel engine is equipped with a diesel particulate filter (DPF) and a diesel oxidation catalyst (DOC) installed by the engine manufacturer. The DPF and DOC will conservatively be considered add-on controls for PM₁₀, CO, and VOC.

The EPA Technical Bulletin – Diesel Particulate Filter General Information (May 2010)³ states that “*DPFs verified by EPA and CARB are typically effective at reducing emissions of PM by 85 to 90 percent or more. EPA’s Verified Technology List also shows that certain DPFs reduce emissions of hydrocarbons and CO by 70 to 90 percent.*” The EPA Technical Bulletin – Diesel Oxidation Catalyst General Information (May 2010)⁴ states that “*DOCs verified by EPA and CARB are typically effective at reducing emissions of particulate matter (PM) by 20 to 40 percent. EPA’s Verified Technology List also shows that DOCs may reduce hydrocarbons by 40 to 75 percent and carbon monoxide by 10 to 60 percent.*” Therefore, it will be assumed that the DPF reduces PM emissions by 90% and reduces CO emissions by 80% and that the DOC reduces PM emissions by 30% and reduces CO emissions by 60%. Certified diesel engines generally have very low VOC emissions and the EPA emission certification data for the engine (EPA Engine Family FJDXL04.5304) indicate that the non-methane hydrocarbon (NMHC) emissions from the engine are only 0.01 g/kW-hr (0.075 g/bhp-hr). The pre-control VOC emissions from the engine will conservatively be based on the total organic carbon emission factor for diesel engines from AP 42, Section 3.4 (October 1994). The pre-control potential to emit for PM₁₀, CO, and VOC from the engine is calculated below.

Pre-Control Potential to Emit for PM₁₀, CO, and VOC from the Engine

Engine Rating: 74 bhp

Maximum Annual Hours of Operation: 2,160 hr/year (current permit)

PM₁₀ Emission Factor: 0.0007 g-PM₁₀/bhp-hr (current permit)

³ US EPA (May 2010) Technical Bulletin – Diesel Particulate Filter General Information. (EPA-420-F-10-029). <https://www.epa.gov/sites/default/files/2016-03/documents/420f10029.pdf>

⁴ US EPA (May 2010) Technical Bulletin – Diesel Oxidation Catalyst General Information. (EPA-420-F-10-031). <https://www.epa.gov/sites/default/files/2016-03/documents/420f10031.pdf>

CO Emission Factor: 0.0746 g-CO/bhp-hr (current permit)

Pre-Control VOC Emission Factor: 7.05×10^{-4} lb-VOC/bhp-hr (AP 42, Section 3.4 - Large Stationary Diesel And All Stationary Dual-fuel Engines (October 1994), Table 3.4-1)

Pre-Control Potential to Emit for PM₁₀ from the Engine

$74 \text{ bhp} \times 2,160 \text{ hr/year} \times 0.0007 \text{ g-PM}_{10}/\text{bhp-hr} \times 1 \text{ lb}/453.59 \text{ g} \div [(1 - 0.9) \times (1 - 0.3)] = 4 \text{ lb-PM}_{10}/\text{year}$

Pre-Control Potential to Emit for CO from the Engine

$74 \text{ bhp} \times 2,160 \text{ hr/year} \times 0.0746 \text{ g-CO}/\text{bhp-hr} \times 1 \text{ lb}/453.59 \text{ g} \div [(1 - 0.8) \times (1 - 0.6)] = 329 \text{ lb-CO}/\text{year}$

Pre-Control Potential to Emit for VOC from the Engine

$74 \text{ bhp} \times 2,160 \text{ hr/year} \times 7.05 \times 10^{-4} \text{ lb-VOC}/\text{bhp-hr} = 113 \text{ lb-VOC}/\text{year}$

As shown above, the pre-control potential to emit for PM₁₀, CO, and VOC from this permit unit do not exceed the applicable major source thresholds for these pollutants. Therefore, this permit unit is not subject to CAM for PM₁₀, CO, or VOC.

I. METAL PARTS AND PRODUCTS AND WOOD PRODUCTS COATING OPERATIONS SERVED BY A PAINT SPRAY BOOTH WITH DRY EXHAUST FILTERS

The permit for this unit includes emission limits for PM₁₀ and VOC. The permit for the unit does not have any limits for NO_x, SO_x, or CO and the unit does not include any add-on on emission controls for VOC; therefore, the CAM requirements of 40 CFR 64 are not applicable for NO_x, SO_x, CO, or VOC. The spray paint booth includes dry exhaust filters, which could be considered an add-on control for PM₁₀; therefore, this unit may be potentially subject to CAM requirements for PM₁₀. The pre-control potential to emit for PM₁₀ from the unit is calculated below.

Pre-Control Potential to Emit for PM₁₀

Annual Potential to Emit for PM₁₀: 7 lb-PM₁₀/year (current permit)

PM₁₀ control efficiency for dry exhaust filters: 95% (March 26, 2006 Memorandum to EPA, 'Review of Spray Booth Filter Information for the

Area Source Motor Vehicle and Mobile Equipment Refinishing National Emission Standards for Hazardous Air Pollutants (NESHAP))

$$7 \text{ lb-PM}_{10}/\text{year} \div (1 - 0.95) = 140 \text{ lb-PM}_{10}/\text{year}$$

As shown above, the pre-control potential to emit for PM₁₀ from this permit unit does not exceed the applicable major source threshold for this pollutant. Therefore, this permit unit is not subject to CAM for PM₁₀.

m. 247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

n. 247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

This permit unit is not equipped with any add-on controls for any pollutant that would cause the unit to be subject to these requirements. Therefore, this permit unit is not subject to CAM.

K. 40 CFR Part 68 – Chemical Accident Provision

The requirements of 40 CFR Part 68 are applicable to facilities, which may store regulated substances above a threshold limit, as specified in the regulation.

40 CFR 68, Subpart A – General

Section 68.1 sets forth the list of regulated substances and thresholds, the petition process for adding or deleting substances to the list of regulated substances, the requirements for owners or operators of stationary sources concerning the prevention of accidental releases, and the State accidental release prevention programs approved under Section 112(r).

Pursuant to Section 68.10, except as provided in paragraphs (b) through (f) of the section, an owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under Section 68.115, shall comply with the requirements of this part no later than the latest of the following dates:

- (1) June 21, 1999;

- (2) Three years after the date on which a regulated substance is first listed under Section 68.130;
 - (3) The date on which a regulated substance is first present above a threshold quantity in a process; or
 - (4) For any revisions to this part, the effective date of the final rule that revises this part.
- (b) By March 14, 2018, the owner or operator of a stationary source shall comply with the emergency response coordination activities in Section 68.93, as applicable.
- (c) Within three years of when the owner or operator determines that the stationary source is subject to the emergency response program requirements of Section 68.95, pursuant to Section 68.90(a), the owner or operator must develop and implement an emergency response program in accordance with Section 68.95.
- (d) By December 19, 2023, the owner or operator shall have developed plans for conducting emergency response exercises in accordance with provisions of Section 68.96, as applicable.
- (e) The owner or operator of a stationary source shall comply with the public meeting requirement in Section 68.210(b) within 90 days of any RMP reportable accident at the stationary source with known offsite impacts specified in Section 68.42(a), that occurs after March 15, 2021.
- (f) After December 19, 2024, for any risk management plan initially submitted as required by Sections 68.150(b)(2) or (3) or submitted as an update required by Section 68.190, the owner or operator shall comply with the following risk management plan provisions of subpart G of this part:
- (1) Reporting a public meeting after an RMP reportable accident under Section 68.160(b)(21) as promulgated on December 19, 2019;
 - (2) Reporting emergency response program information under Section 68.180(a)(1) as promulgated on December 19, 2019;
 - (3) Reporting emergency response program information under Section 68.180(a)(2) and (3) as promulgated on January 13, 2017, as applicable; and,
 - (4) Reporting emergency response program and exercises information under Section 68.180(b) as promulgated on January 13, 2017, as applicable. The owner or operator shall submit dates of the most recent notification, field and tabletop exercises in the risk management plan, for exercises completed as required under §68.96 at the time the risk management plan is either submitted under §68.150(b)(2) or (3), or is updated under §68.190.

- (g) *Program 1 eligibility requirements.* A covered process is eligible for Program 1 requirements as provided in Section 68.12(b) if it meets all of the following requirements:
- (1) For the five years prior to the submission of an RMP, the process has not had an accidental release of a regulated substance where exposure to the substance, its reaction products, overpressure generated by an explosion involving the substance, or radiant heat generated by a fire involving the substance led to any of the following offsite:
 - (i) Death;
 - (ii) Injury; or
 - (iii) Response or restoration activities for an exposure of an environmental receptor;
 - (2) The distance to a toxic or flammable endpoint for a worst-case release assessment conducted under subpart B and Section 68.25 is less than the distance to any public receptor, as defined in Section 68.3; and
 - (3) Emergency response procedures have been coordinated between the stationary source and local emergency planning and response organizations.
- (h) *Program 2 eligibility requirements.* A covered process is subject to Program 2 requirements if it does not meet the eligibility requirements of either paragraph (g) or paragraph (i) of this section.
- (i) *Program 3 eligibility requirements.* A covered process is subject to Program 3 if the process does not meet the requirements of paragraph (g) of this section, and if either of the following conditions is met:
- (1) The process is in NAICS code 32211, 32411, 32511, 325181, 325188, 325192, 325199, 325211, 325311, or 32532; or
 - (2) The process is subject to the OSHA process safety management standard, 29 CFR 1910.119.
- (j) If at any time a covered process no longer meets the eligibility criteria of its Program level, the owner or operator shall comply with the requirements of the new Program level that applies to the process and update the RMP as provided in Section 68.190.

40 CFR 68, Subpart B – Hazard Assessment

Pursuant to Section 68.20, the owner or operator of a stationary source subject to this part shall prepare a worst-case release scenario analysis as provided in Section 68.25 of this part and complete the five-year accident history as provided in Section 68.42.

40 CFR 68, Subpart C - Program 2 Prevention Program

40 CFR 68, Subpart C - Program 2 Prevention Program (Sections 68.48 through 60.60) specify the requirements for facilities subject to the Program 2 Prevention Program.

40 CFR 68, Subpart D - Program 3 Prevention Program

40 CFR 68, Subpart D - Program 3 Prevention Program (Sections 68.65 through 60.87) specify the requirements for facilities subject to the Program 3 Prevention Program.

40 CFR 68, Subpart E - Emergency Response

Pursuant to Section 68.90(a) - Responding Stationary Source, except as provided in paragraph (b) of this section, the owner or operator of a stationary source with Program 2 and Program 3 processes shall comply with the requirements of Sections 68.93, 68.95, and 68.96.

Pursuant to Section 68.90(b) - Non-responding stationary source, the owner or operator of a stationary source whose employees will not respond to accidental releases of regulated substances need not comply with Section 68.95 of this part provided that:

- (1) For stationary sources with any regulated toxic substance held in a process above the threshold quantity, the stationary source is included in the community emergency response plan developed under 42 U.S.C. 11003;
- (2) For stationary sources with only regulated flammable substances held in a process above the threshold quantity, the owner or operator has coordinated response actions with the local fire department;
- (3) Appropriate mechanisms are in place to notify emergency responders when there is a need for a response;
- (4) The owner or operator performs the annual emergency response coordination activities required under Section 68.93; and
- (5) The owner or operator performs the annual notification exercises required under Section 68.96(a).

Pursuant to Section 68.93 - Emergency Response Coordination Activities, the owner or operator of a stationary source shall coordinate response needs with local emergency planning and response organizations to determine how the stationary source is addressed in the community emergency response plan and to ensure that local response organizations are aware of the regulated substances at the stationary source, their quantities, the risks presented by covered processes, and the resources and capabilities at the stationary source to respond to an accidental release of a regulated substance.

Pursuant to Section 68.95 - Emergency Response Program, the owner or operator shall develop and implement an emergency response program for the purpose of protecting public health and the environment.

40 CFR 68, Subpart F - Regulated Substances for Accidental Release Prevention

This subpart designates substances to be listed under section 112(r)(3), (4), and (5) of the Clean Air Act, as amended, identifies their threshold quantities, and establishes the requirements for petitioning to add or delete substances from the list.

Section 68.130 – List of Substances lists regulated toxic and flammable substances under section 112(r) of the Clean Air Act in Tables 1, 2, 3, and 4. Threshold quantities for listed toxic and flammable substances are specified in the tables.

40 CFR 68, Subpart G - Risk Management Plan

Section 68.150 – Submission requires the following:

- (a) The owner or operator shall submit a single RMP that includes the information required by Sections 68.155 through 68.185 for all covered processes. The RMP shall be submitted in the method and format to the central point specified by EPA as of the date of submission.
- (b) The owner or operator shall submit the first RMP no later than the latest of the following dates:
 - (1) June 21, 1999;
 - (2) Three years after the date on which a regulated substance is first listed under Section 68.130; or
 - (3) The date on which a regulated substance is first present above a threshold quantity in a process.
- (c) The owner or operator of any stationary source for which an RMP was submitted before June 21, 2004, shall revise the RMP to include the information required by Section 68.160(b)(6) and (14) by June 21, 2004 in the manner specified by EPA prior to that date. Any such submission shall also include the information required by Section 68.160(b)(20) (indicating that the submission is a correction to include the information required by Sections 68.160(b)(6) and (14) or an update under Section 68.190).
- (d) RMPs submitted under this section shall be updated and corrected in accordance with Sections 68.190 and 68.195.

- (e) Notwithstanding the provisions of Sections 68.155 to 68.190, the RMP shall exclude classified information. Subject to appropriate procedures to protect such information from public disclosure, classified data or information excluded from the RMP may be made available in a classified annex to the RMP for review by Federal and state representatives who have received the appropriate security clearances.
- (f) Procedures for asserting that information submitted in the RMP is entitled to protection as confidential business information are set forth in Sections 68.151 and 68.152.

Section 68.165 – Offsite Consequence Analysis requires (a) The owner or operator shall submit in the RMP information:

- (1) One worst-case release scenario for each Program 1 process; and
- (2) For Program 2 and 3 processes, one worst-case release scenario to represent all regulated toxic substances held above the threshold quantity and one worst-case release scenario to represent all regulated flammable substances held above the threshold quantity. If additional worst-case scenarios for toxics or flammables are required by §68.25(a)(2)(iii), the owner or operator shall submit the same information on the additional scenario(s). The owner or operator of Program 2 and 3 processes shall also submit information on one alternative release scenario for each regulated toxic substance held above the threshold quantity and one alternative release scenario to represent all regulated flammable substances held above the threshold quantity.

Section 68.168 - Five-year accident history requires the owner or operator shall submit in the RMP the information provided in Section 68.42(b) on each accident covered by Section 68.42(a).

Sections 68.170 - Prevention program/Program 2 and 68.175 - Prevention program/Program 3 specify the requirements for Program 2 and 3 Prevention Programs.

Section 68.190 - Updates requires The owner or operator shall review and update the RMP as specified in paragraph (b) of the section and submit it in the method and format to the central point specified by EPA as of the date of submission.

Section 68.195 - Required corrections requires the owner or operator of a stationary source for which a RMP was submitted shall correct the RMP as follows:

- (a) New accident history information—For any accidental release meeting the five-year accident history reporting criteria of Section 68.42 and occurring after April 9, 2004, the owner or operator shall submit the data required under Sections 68.168, 68.170(j), and 68.175(l) with respect to that accident within six months of the release or by the time the RMP is updated under Section 68.190, whichever is earlier.
- (b) Emergency contact information—Beginning June 21, 2004, within one month of any change in the emergency contact information required under Section 68.160(b)(6), the owner or operator shall submit a correction of that information.

40 CFR 68, Subpart H – Other Requirements

Pursuant to Section 68.200 – Recordkeeping, the owner or operator shall maintain records supporting the implementation of this part at the stationary source for five years, unless otherwise provided in subpart D of this part.

Section 68.210 – Availability of information to the public, requires the following:

- (a) *RMP availability.* The RMP required under subpart G of this part shall be available to the public under 42 U.S.C. 7414(c) and 40 CFR part 1400.
- (b) *Public meetings.* The owner or operator of a stationary source shall hold a public meeting to provide information required under Section 68.42(b), no later than 90 days after any RMP reportable accident at the stationary source with any known offsite impact specified in Section 68.42(a).
- (c) *Classified and restricted information.* The disclosure of information classified or restricted by the Department of Defense or other Federal agencies or contractors of such agencies shall be controlled by applicable laws, regulations, or executive orders concerning the release of that classified or restricted information.

The requirements of Section 68.215 – Permit content and air permitting authority or designated agency requirements, apply to any stationary source subject to this part 68 and parts 70 or 71 of this chapter.

- (a) The 40 CFR part 70 or part 71 permit for the stationary source shall contain:
 - (1) A statement listing this part as an applicable requirement;
 - (2) Conditions that require the source owner or operator to submit:
 - (i) A compliance schedule for meeting the requirements of this part by the dates provided in Sections 68.10(a) through (f) and 68.96(a) and (b)(2)(i), or;
 - (ii) As part of the compliance certification submitted under 40 CFR 70.6(c)(5), a certification statement that the source is in compliance with all requirements of this part, including the registration and submission of the RMP.
- (b) The owner or operator shall submit any additional relevant information requested by the air permitting authority or designated agency.
- (c) For 40 CFR part 70 or part 71 permits issued prior to the deadline for registering and submitting the RMP and which do not contain permit conditions described in paragraph (a) of this section, the owner or operator or air permitting authority shall initiate permit revision or reopening according to the procedures of 40 CFR 70.7 or 71.7 to incorporate the terms and conditions consistent with paragraph (a) of this section.
- (d) The state may delegate the authority to implement and enforce the requirements of paragraph (e) of this section to a state or local agency or agencies other than the air permitting authority. An up-to-date copy of any delegation instrument shall be maintained by the air permitting authority. The state may enter a written agreement with the Administrator under which EPA will implement and enforce the requirements of paragraph (e) of this section.
- (e) The air permitting authority or the agency designated by delegation or agreement under paragraph (d) of this section shall, at a minimum:
 - (1) Verify that the source owner or operator has registered and submitted an RMP or a revised plan when required by this part;
 - (2) Verify that the source owner or operator has submitted a source certification or in its absence has submitted a compliance schedule consistent with paragraph (a)(2) of this section;
 - (3) For some or all of the sources subject to this section, use one or more mechanisms such as, but not limited to, a completeness check, source audits, record reviews, or facility inspections to ensure that permitted sources are in compliance with the requirements of this part; and
 - (4) Initiate enforcement action based on paragraphs (e)(1) and (e)(2) of this section as appropriate.

Pursuant to Section 68.220 – Audits, in addition to inspections for the purpose of regulatory development and enforcement of the Act, the implementing agency shall periodically audit RMPs submitted under subpart G of this part to review the adequacy of such RMPs and require revisions of RMPs when necessary to ensure compliance with subpart G of this part.

The following condition of the proposed requirements of the facility-wide permit will ensure compliance with this regulation if it is determined to apply to the facility.

Permit Unit #	Permit Description	Condition #
C-535-0-4	Facility-Wide Permit	42

L. 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 did not have any effect on the current permit requirements and will therefore not be addressed further in this evaluation.

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

Permit Unit #	Permit Description	Condition #
C-535-0-4	Facility-Wide Permit	28

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

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

These regulations apply to any person servicing, maintaining, or repairing appliances. This subpart also applies to persons disposing of appliances,

including small appliances and motor vehicle air conditioners. In addition, this subpart applies to refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturer of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.

The amendments to this subpart do not have any effect on the current permit requirements and therefore will not be addressed further in this evaluation.

The following condition of the proposed requirements of the facility-wide permit ensure compliance with this regulation.

Permit Unit #	Permit Description	Condition #
C-535-0-4	Facility-Wide Permit	27

IX. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

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

B. Requirements not Addressed by Model General Permit Templates

The applicant is not requesting any new permit shields that are not addressed by general permit templates.

C. Previous Permit Shields Included in the Renewed Permit

The following conditions of the proposed requirements for the draft renewed Title V permit include permit shields that were previously addressed for rules that have not been updated since the last renewal that have been carried over to the draft renewed Title V permit.

Permit Unit #	Permit Description	Condition #s
C-535-0-4	Facility-Wide Permit	39-40

Permit Unit #	Permit Description	Condition #s
C-535-10-4	2,307 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	21
C-535-11-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	14
C-535-12-4	Transportable 140 bhp Diesel Emergency Standby Engine Powering a Water Transfer Pump	14
C-535-17-4	455 bhp Diesel Emergency Standby Engine Powering an Electrical Generator	21

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

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley
Air Pollution Control District

FACILITY: C-535-0-4

EXPIRATION DATE: 01/31/2021

FACILITY-WIDE REQUIREMENTS

1. {4362} 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. {4363} 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. {4364} The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (8/18/11). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. {4367} A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040]
8. {4369} The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. {4370} The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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, 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 of District Rule 4601 (4/16/20), after the specified effective dates in Table 1 or Table 2 of District Rule 4601. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All architectural coating containers and containers of any VOC-containing materials subject to Rule 4601 (4/16/20) shall be closed 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 (4/16/20). [District Rule 4601, 6.1 and 6.3] 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: Fresno County Rule 110, Fresno County Rule 202, and Fresno County Rule 401. 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 2010, Sections 3.0 and 4.0 (12/17/92); 2031 (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. Should the facility, as defined in 40 CFR 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR 68.10. The facility shall certify compliance as part of the annual certification as required by 40 CFR Part 70. [40 CFR Part 68] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 23 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

DRAFT

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-6-18

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS/NATURAL GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA-LOW NOX BURNER AND SULFATREAT DIGESTER GAS TREATMENT SYSTEM

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO₂. [District Rules 4201 and 4301] Federally Enforceable Through Title V Permit
3. {1898} 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]
4. The boiler shall only be fired on the following fuels: 1) raw digester gas treated in the SulfaTreat system listed on this permit; 2) conditioned digester gas from the digester gas conditioning system under permit C-535-26; or 3) PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
5. The boiler shall be equipped with an operational non-resettable, totalizing mass or volumetric flow meter on each fuel supply line. [District Rules 2201 and 4001, and 40 CFR 60.48(c)(g)] Federally Enforceable Through Title V Permit
6. Emissions from the boiler shall not exceed any of the following limits: 9 ppmvd NO_x @ 3% O₂ or 0.011 lb-NO_x/MMBtu, 0.026 lb-SO_x/MMBtu, 0.0048 lb-PM₁₀/MMBtu, 100 ppmvd CO @ 3% O₂ or 0.061 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
7. The sulfur content of any fuel used by the boiler shall not exceed 5 grains/100 dscf of total sulfur (equivalent to 79.6 ppm as H₂S). [District Rules 2201, 4320, and 4801] Federally Enforceable Through Title V Permit
8. When the unit is fired on digester gas fuel, daily testing of the digester gas is required so as to not exceed an average of 79.6 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within three (3) hours in order to maintain average below 79.6 ppm. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
9. For daily testing of the sulfur content of the digester gas fuel used as fuel in this unit, one of the following methods shall be used: ASTM D1072, ASTM D3246, ASTM D4084, ASTM D4810, ASTM D5504, ASTM D6228, EPA Method 11 or EPA Method 15, as appropriate, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520] Federally Enforceable Through Title V Permit
10. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. For each fuel type used, source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. For each fuel type used, if the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency for that fuel type shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. Source testing shall not be required for a fuel not exceeding the following limits in any rolling 12-month period: 2,899,306 scf of raw digester gas; 1,741,397 scf of conditioned digester gas; or 1,670,000 scf of PUC-quality natural gas (calculated based on 100 hours of operation at full load and higher heating values of 576 Btu/scf, 959 Btu/scf, and 1,000 Btu/scf, respectively). Upon exceeding these fuel usage limits in any rolling 12-month period for a given fuel type, a source test shall be completed within 60 days, unless source testing for that fuel type has been completed within the last 12 or 36 months, as normally would be required. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4320. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. The results of each source test shall be submitted to the District within 60 days after completion of the source test. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

21. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
25. Records shall be maintained documenting that the natural gas used as fuel in this unit is provided from a PUC regulated or FERC regulated source, or the sulfur content of the natural gas used shall be determined at least annually using using EPA Method 11 or EPA Method 15, as appropriate, ASTM D5504, ASTM D6228, or an alternative method approved by EPA and the District. Valid purchase contracts, supplier certifications, tariff sheets, or transportation contacts may be used to document that the natural gas used in this unit is provided from a PUC regulated or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit
26. Fuel sulfur content analysis of digester gas used as fuel in this unit shall be performed at least annually using EPA Method 11 or EPA Method 15, as appropriate, ASTM D5504, ASTM D6228, or an alternative method approved by EPA and the District. Records of the fuel sulfur analysis shall be maintained and provided it to the District upon request. [District Rule 1070 and 4320] Federally Enforceable Through Title V Permit
27. Records of daily sulfur testing results of digester gas fuel shall be maintained. [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit
28. Records of the amount of each fuel used in this unit, in standard cubic feet (scf) shall be maintained for each month in which the unit is operated. [District Rules 1070, 2520, and 4001, and 40 CFR 60.48(c)(g)] Federally Enforceable Through Title V Permit
29. 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, 4001, 4305, 4306, and 4320; and 40 CFR 60.48(c)(i)] Federally Enforceable Through Title V Permit
30. An Emission Control Plan and any required Authority to Construct (ATC) application shall be submitted for this unit for compliance with the applicable Tier 2 emission limits of District Rule 4306 by May 1, 2028 and District Rule 4320 by May 1, 2022 and the unit shall be in full compliance with the applicable Tier 2 emissions limits of District Rule 4306 on and after December 31, 2029 and District Rule 4320 on and after December 31, 2023. [District Rules 4306 and 4320] 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: C-535-9-18

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE

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PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. The flare shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The waste gas flare system shall be specifically designed for burning wastewater treatment plant digester gas, and alternate fuel may be used as pilot fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The flare system shall have continuous readout and recording of gas flow rate and stack temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Flare flue gas temperature shall be maintained to at least 1,400 degrees F and 0.6 seconds minimum residence time. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Total volume of gaseous fuel flared shall not exceed 1,584,000 standard cubic feet (scf) per day. [District Rule 2201] Federally Enforceable Through Title V Permit
8. A flame shall be present at all times in the flare whenever combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
9. The flare outlet shall be equipped with an automatic ignition system, or shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
10. The flare shall be equipped with a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device capable of continuously detecting at least one pilot flame is present. The flame detection device shall be kept operational at all times except during flare maintenance when the flare is isolated from gas flow. All pilot monitor downtime shall be reported annually pursuant to Rule 4311, Section 6.2.3.6. [District Rule 4311] Federally Enforceable Through Title V Permit
11. Daily testing of digester gas is required so as to not exceed an average of 200 ppm sulfur as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within 3 hours in order to maintain average below 200 ppm. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Emissions shall not exceed any of the following limits: 2.2 lb NO_x/hr, 1.8 lb SO_x/hr, 0.18 lb PM₁₀/hr, or 10.5 lb CO/hr. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
13. The NO_x emissions measured from the flare shall not exceed 0.1330 lb-NO_x/MMBtu. [District Rule 4311] 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.

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14. VOC emissions shall not exceed 0.0027 lb-VOC/MMBtu. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
15. Flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to District Rule 4311, Section 6.5, and all commitments listed in that plan have been met. This standard does not apply if the APCO determines that the flaring is caused by an emergency as defined by District Rule 4311, Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere. [District Rule 4311] Federally Enforceable Through Title V Permit
16. The operator shall monitor and record the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. [District Rule 4311] Federally Enforceable Through Title V Permit
17. Source testing to measure NO_x and VOC emissions from the flare shall be conducted at least once every twelve (12) months. [District Rule 4311] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 30 days prior to testing. [District Rules 1081 and 4311] Federally Enforceable Through Title V Permit
19. The results of each source test shall be submitted to the District within 60 days after completion of the source test. [District Rules 1081 and 4311] Federally Enforceable Through Title V Permit
20. NO_x emissions for source test purposes shall be determined using EPA Method 19 on a heat input basis, or EPA Method 3A, EPA Method 7E, or ARB 100 on a ppmv basis. [District Rule 4311] Federally Enforceable Through Title V Permit
21. VOC emissions for source test purposes shall be determined using EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
22. Oxygen (O₂) concentration of flared gas shall be determined using EPA Method 3A, EPA Method 7E, or ARB 100. [District Rule 4311] Federally Enforceable Through Title V Permit
23. Measurement of halogenated exempt compounds shall be performed using EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". [District Rule 4311] Federally Enforceable Through Title V Permit
24. The higher heating value (HHV) of the gas flared shall be determined using ASTM D1826-88, ASTM 1945-81 in conjunction with ASTM D3588-89, or an alternative method approved by the EPA and the District. [District Rule 4311] Federally Enforceable Through Title V Permit
25. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rule 1081] Federally Enforceable Through Title V Permit
26. The operator of a flare subject to flare minimization plans (FMPs) pursuant to District Rule 4311, Section 5.11 shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, whichever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time. [District Rule 4311] Federally Enforceable Through Title V Permit
27. The operator of a flare subject to flare minimization plans pursuant to District Rule 4311, Section 5.11 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the previous calendar year. The report shall include, but is not limited to all of the following: 1) The results of an investigation to determine the primary cause and contributing factors of the flaring event; 2) Any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented; 3) If appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and 4) The date, time, and duration of the flaring event. [District Rule 4311] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

28. The operator of a flare subject to flare monitoring requirements pursuant to District Rule 4311 shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following: 1) The total volumetric flow of vent gas in standard cubic feet for each day for the previous calendar year; 2) Flare monitoring system downtime periods, including dates and times, as applicable pursuant to Section 6.9; 3) A flow verification report for each flare subject to Rule 4311, and 4) For flares subject to the annual throughput thresholds specified in Table 2, the annual throughput in MMBtu for the previous calendar year shall be included. Effective on and after January 1, 2024, the annual report submitted by an operator for a flare subject to flare monitoring requirements pursuant to District Rule 4311 shall be submitted in an electronic format approved by the District within 30 days following the end of each calendar year for all required monitoring under those sections. [District Rule 4311] Federally Enforceable Through Title V Permit
29. Every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan. [District Rule 4311] Federally Enforceable Through Title V Permit
30. An updated FMP shall be submitted by the operator pursuant to Rule 4311, Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated FMP submittals are only required if: 1) The equipment change would require an authority to construct (ATC) and would impact the emissions from the flare, and 2) The modification is not solely the removal or decommissioning of equipment that is listed in the FMP, and has no associated increase in flare emissions. [District Rule 4311] Federally Enforceable Through Title V Permit
31. For purposes of the flow verification report required by Rule 4311, Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA: EPA Methods 1 and 2; a verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10; tracer gas dilution or velocity; other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter. [District Rule 4311] Federally Enforceable Through Title V Permit
32. For daily testing of the sulfur content of the gas flared, one of the following methods shall be used: ASTM D1072, ASTM D3246, ASTM D4084, ASTM D4810, ASTM D5504, ASTM D6228, EPA Method 11 or EPA Method 15, as appropriate, grab sample analysis by GC-FPD/TCD performed in the laboratory, or an alternative method approved by EPA and the District. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
33. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
35. Daily records of total gas flared shall be maintained. [District Rules 2201 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
36. Records of flare maintenance, inspections and repair shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
37. Records of daily sulfur testing results shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
38. Permittee shall maintain the following records: a copy of the source testing result conducted pursuant to Rule 4311, Section 6.4.2; a copy of the approved flare minimization plan pursuant to Section 6.5; and copies of annual reports submitted to the APCO pursuant to Section 6.2. [District Rule 4311] Federally Enforceable Through Title V Permit
39. Permittee shall maintain records of the following when the flare is used during an emergency: duration of flare operation, amount of gas burned, and the nature of the emergency situation. [District Rule 4311] 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.

40. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall be calculated as follows: Annual NOx Emissions (lbs/year) = [(33.0 lb/MMscf x Waste Gas Flare's Annual Fuel Combusted (MMscf/year)) + (1.13 lbs/hr x IC Engine Powering an Air Compressor Annual Hours of Operation (hrs/year)) + (0.51 lbs/hr x IC Engine Powering a Pump Annual Hours of Operation (hrs/year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
42. Records of the total annual NOx emissions from units C-535-9, -24, and -44 shall be maintained and updated monthly. [District Rules 1070 and 2520, 9.4] Federally Enforceable Through Title V Permit
43. 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 4311] Federally Enforceable Through Title V Permit
44. An Authority to Construct (ATC) application shall be submitted for this unit for compliance with the applicable throughput and/or emission limits of District Rule 4311 (Amended December 17, 2020), Section 5.9 by July 1, 2022 and the unit shall be in full compliance with the applicable throughput and/or emission limits of District Rule 4311, Section 5.9 by the dates specified in District Rule 4311, Section 7. [District Rule 4311] 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: C-535-10-4

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

2307 BHP CATERPILLAR MODEL 3516 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall 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, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, Fresno County Rule 406, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier in a manner consistent with good air pollution control practice for minimizing emissions. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. 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 20 hours per calendar year. [District Rules 2201, 4701, and 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. 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
12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. The permittee has the option of utilizing an oil analysis program in order to extend the oil change requirement specified in this condition. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d of 40 CFR 63 Subpart ZZZZ. 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
14. 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
15. 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
16. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. 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, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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 Rules 4701 and 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The permittee shall maintain monthly records of the type of fuel purchased and shall retain fuel purchase records that demonstrate that the only CARB certified diesel fuel was purchased to supply this engine. [District Rules 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. 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 4701 and 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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: C-535-11-4

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 140 BHP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #1 POWERING A WATER TRANSFER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall 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
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is kept at a storage location shall be excluded from the residency time determination. [District Rules 2070 and 4701] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, Fresno County Rule 406, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. NOx emission rate shall not exceed 6.0 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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 20 hours per calendar year. [District Rules 2201 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. 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, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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
12. The permittee shall maintain monthly records of the type of fuel purchased and shall retain fuel purchase records that demonstrate that the only CARB certified diesel fuel was purchased to supply this engine. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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: C-535-12-4

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 140 HP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #2 SERVING A WATER TRANSFER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall 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
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
4. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is kept at a storage location shall be excluded from the residency time determination. [District Rules 2070 and 4701] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, Fresno County Rule 406, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. NOx emission rate shall not exceed 6.0 g/hp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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 20 hours per calendar year. [District Rules 2201 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. 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, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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
12. The permittee shall maintain monthly records of the type of fuel purchased and shall retain fuel purchase records that demonstrate that the only CARB certified diesel fuel was purchased to supply this engine. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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: C-535-13-8

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

150 ELECTRIC HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Maximum design influent flow rate through headworks shall not exceed 106 million gallons per day (MGD). [District Rule 2201] Federally Enforceable Through Title V Permit
3. The total emissions from this operation shall not exceed 0.075 pounds VOC per MGD of influent flow. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Scrubbers shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Scrubber liquid to gas ratio shall be observed and recorded weekly during operation of this unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of scrubber liquid to gas ratio shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Records of daily influent flow rate through headworks shall be maintained and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2] 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 1070 and 2520, 9.4.2] 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: C-535-17-4

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

455 BHP CUMMINS MODEL NTA855 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
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, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. Emissions shall not exceed 5.61 g NOx/bhp-hr. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, Fresno County Rule 406, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier in a manner consistent with good air pollution control practice for minimizing emissions. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. 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 20 hours per calendar year. [District Rules 2201, 4701, and 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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
11. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. The permittee has the option of utilizing an oil analysis program in order to extend the oil change requirement specified in this condition. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d of 40 CFR 63 Subpart ZZZZ. 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
14. 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
15. 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
16. The permittee must maintain records of all required maintenance performed on the air pollution control and monitoring equipment. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. 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, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). 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 Rules 4701 and 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The permittee shall maintain monthly records of the type of fuel purchased and shall retain fuel purchase records that demonstrate that the only CARB certified diesel fuel was purchased to supply this engine. [District Rules 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
20. 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 4701 and 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-24-5

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE
POWERING AN AIR COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. This engine shall be equipped with an operational non-resettable hour meter. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
4. The only approved storage and operational location for this IC engine shall be Facility C-535 at 5607 W Jensen Avenue, Fresno, CA. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is maintained at a storage location shall be excluded from the residency time determination. [District Rule 4701 and 17 CCR 93116] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201, 4702, and 4801, Fresno County Rule 406, and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 4.10 g-NOx/bhp-hr, 0.75 g-CO/bhp-hr, or 0.30 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.19 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93116] Federally Enforceable Through Title V Permit
9. 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
10. During periods of operation, 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
11. The permittee shall maintain an engine-operating log that shall include the following: daily records of the date, location at the facility, operational time; a record of the total annual hours of operation of the engine; and records of operational characteristics monitoring. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
12. The permittee shall maintain monthly records of the type of fuel purchased and shall retain fuel purchase records that demonstrate that the only CARB certified diesel fuel was purchased to supply this engine. [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. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall be calculated as follows: Annual NOx Emissions (lbs/year) = [(33.0 lb/MMscf x Waste Gas Flare's Annual Fuel Combusted (MMscf/year)) + (1.13 lbs/hr x IC Engine Powering an Air Compressor Annual Hours of Operation (hrs/year)) + (0.51 lbs/hr x IC Engine Powering a Pump Annual Hours of Operation (hrs/year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Records of the total annual NOx emissions from units C-535-9, -24, and -44 shall be maintained and updated monthly. [District Rules 1070 and 2520, 9.4] Federally Enforceable Through Title V Permit
16. 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 and 17 CCR 93116] Federally Enforceable Through Title V Permit
17. This transportable IC engine shall not be operated on or after January 1, 2027, unless it is designated a low-use engine permitted to operate no more than 200 hours in any calendar year, designated an emergency-use engine prior to this date, or otherwise demonstrates compliance with the applicable requirements of the California Airborne Toxic Control Measure (ATCM) for Diesel particulate Matter from Portable Engines Rated at 50 hp and Greater (California Code of Regulations (CCR) Title 17, Section 93116). [17 CCR 93116]

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: C-535-26-7

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

DIGESTER GAS TREATMENT SYSTEM CONSISTING OF A CHILLER; COMPRESSOR; HYDROGEN SULFIDE REMOVAL UNIT; MEMBRANE PROCESSING UNIT; A 7.46 MMBTU/HR JOHN ZINK MODEL ZBRID WASTE GAS COMBUSTION DEVICE USING RAW DIGESTER GAS OR PUC-QUALITY NATURAL GAS AS SUPPLEMENTAL FUEL; AND ACTIVATED CARBON ADSORPTION BEDS

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions from the exhaust of the combustion device shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. {1898} 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]
4. The combustion device shall only be fired on raw digester gas or PUC-quality natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emission rates from the combustion device shall not exceed any of the following limits: NO_x - 0.06 lb/MMBtu; PM₁₀ - 0.016 lb/MMBtu, CO - 0.20 lb/MMBtu; or 20 ppmv VOC @ 3% O₂ (as hexane) or 0.084 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The H₂S content of the raw digester gas processed through this gas treatment system shall not exceed 200 ppmv. [District Ruled 2201 and 4801] Federally Enforceable Through Title V Permit
7. Source testing of the NO_x and CO emissions from the exhaust of the combustion device shall be performed at least once every five years. Source testing is only required for the fuel type being used at the time. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
8. Within 60 days of commencing operation after switching the fuel type between digester gas and PUC-quality natural gas, source testing of the NO_x and CO emissions from the exhaust of the combustion device shall be performed on the new fuel type, unless source testing on the new fuel has been completed within the last 5 years. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Testing to demonstrate compliance with the raw digester gas H₂S content limit shall be conducted quarterly. Once eight (8) consecutive quarterly test show compliance, the H₂S content testing frequency may be reduce to once every calendar year. If an annual test shows violation of the H₂S content limit, then quarterly testing shall resume and continue until eight (8) consecutive tests show compliance. Once compliance is shown on eight (8) consecutive quarterly tests, then testing may return to once every calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. NO_x emissions for source test purposes shall be determined using EPA Method 19. [District Rules 2201 and 2520] 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. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
13. Testing to measure the H₂S content of the fuel shall be conducted using either EPA Method 15, ASTM Method D1072, D3031, D3246, D4084, D4810, D5504, D6228 or with the use of the Testo 350 XL portable analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The combustion zone of the combustion device shall be maintained at a minimum of 1,400 degrees Fahrenheit. [District Rule 2520] Federally Enforceable Through Title V Permit
16. The combustion device shall be equipped with a continuous temperature monitoring and recording device, in operation at all times. [District Rule 2520] Federally Enforceable Through Title V Permit
17. The permittee shall maintain daily records of the thermal oxidizer combustion temperature. [District Rule 2520] Federally Enforceable Through Title V Permit
18. The permittee shall maintain records of: (1) daily amount of waste gas, raw digester gas, and/or PUC-quality natural gas consumed by the combustion device, in standard cubic feet; (2) copy of source test reports; and (3) copies of all annual reports submitted to the District. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
19. 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 2201 and 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: C-535-28-2

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

UNCONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB SARACCO NATIONAL BOARD #34188 BLASTING POT (POWERED BY ENGINE PERMITTED UNDER C-535-24)

PERMIT UNIT REQUIREMENTS

1. {4627} All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. {52} The blasting operations shall be carried out in a manner to prevent any nuisances. [District Rule 4102]
3. {1475} All abrasive blasting shall be conducted in accordance with California Code of Regulations Title 17, Subchapter 6, Sections 92000 through 92540. [92000 through 92540 CCR]
4. {1483} A used certified abrasive shall not be considered certified for reuse unless the abrasive conforms to its original cut-point fineness. [92530 CCR]
5. {1482} Unconfined abrasive blasting operations shall not discharge air contaminants into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 2 or equivalent to 40% opacity. [92200 CCR]
6. {3259} Except as otherwise provided in this permit, abrasive blasting shall be conducted within a permanent building unless steel or iron shot/grit is used. [92500 CCR]
7. {1991} Abrasive blasting of items exceeding 8 feet in any dimension, or of a surface situated at its permanent location, or no further away from its permanent location than is necessary to allow the surface to be blasted, may be performed outside a permanent building only if one of the following is used: steel or iron shot/grit; abrasives certified by CARB for permissible dry outdoor blasting; wet abrasive blasting, hydroblasting; or vacuum blasting. [92500 CCR]
8. Unconfined abrasive blasting shall be limited to 5 hours in any one day and 250 hours per rolling 12-month period. [District Rule 4102]
9. Operator shall record the date and hours when unconfined blasting occurs. [District Rules 1070 and 4102]
10. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070 and 4102]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-44-1

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 74 BHP JOHN DEERE MODEL 4045TFC03 TIER 4 FINAL CERTIFIED DIESEL FIRED IC ENGINE
POWERING A PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. This engine shall be equipped with an operational non-resettable hour meter. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
4. The only approved storage and operational location for this IC engine shall be Facility C-535 at 5607 W Jensen Avenue, Fresno. [District Rule 2201] Federally Enforceable Through Title V Permit
5. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is maintained at a storage location shall be excluded from the residency time determination. [District Rule 4701 and 17 CCR 93116] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201, 4702, and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits: 3.12 g-NOx/bhp-hr, 0.0746 g-CO/bhp-hr, or 0.16 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
8. Emissions from this IC engine shall not exceed 0.0007 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93116] Federally Enforceable Through Title V Permit
9. 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
10. Operation of this engine shall not exceed 2,160 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
11. During periods of operation, 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
12. The permittee shall maintain an engine-operating log that shall include the following: daily records of the date, location at the facility, operational time; a record of the total annual hours of operation of the engine; and records of operational characteristics monitoring. [District Rules 2201 and 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 of the type of fuel purchased and shall retain fuel purchase records that demonstrate that the only CARB certified diesel fuel was purchased to supply this engine. [District Rule 4702] Federally Enforceable Through Title V Permit
14. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall be calculated as follows: Annual NOx Emissions (lbs/year) = [(33.0 lb/MMscf x Waste Gas Flare's Annual Fuel Combusted (MMscf/year)) + (1.13 lbs/hr x IC Engine Powering an Air Compressor Annual Hours of Operation (hrs/year)) + (0.51 lbs/hr x IC Engine Powering a Pump Annual Hours of Operation (hrs/year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records of the total annual NOx emissions from units C-535-9, -24, and -44 shall be maintained and updated monthly. [District Rules 1070 and 2520, 9.4] 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 Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-535-48-1

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

METAL PARTS AND PRODUCTS AND WOOD PRODUCTS COATING OPERATIONS SERVED BY A PAINT SPRAY BOOTH WITH DRY EXHAUST FILTERS

PERMIT UNIT REQUIREMENTS

1. 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]
2. All coating shall be conducted in booth with filters in place, fan(s) operating, and doors closed. [District Rule 2201] Federally Enforceable Through Title V Permit
3. VOC emissions from metal parts and products coating operations shall not exceed 11.2 lb/day or 280 lb/year. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
4. VOC emissions from wood products coating operations shall not exceed 9.2 lb/day or 230 lb/year. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
5. PM10 emissions from each coating operations shall not exceed 0.3 lb/day or 7 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. For the metal parts and products coating operation, the VOC content of any coating as applied, excluding water and exempt compounds, shall not exceed 340 g/l (2.8 lb/gal). [District Rules 2201 and 4603] Federally Enforceable Through Title V Permit
7. For the wood products coating operation, the VOC content of any coating as applied, excluding water and exempt compounds, shall not exceed either of the following limits: clear topcoat 275 g/l (2.3 lb/gallon), or pigmented coating 275 g/l (2.3 lb/gallon). [District Rules 2201 and 4606] Federally Enforceable Through Title V Permit
8. Only HVLP, roll, or brush coating application equipment, or other application equipment pre-approved by the District in writing, shall be used. All application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rules 2201, 4603, and 4606] Federally Enforceable Through Title V Permit
9. If an HVLP spray gun is used, the operator must demonstrate that the spray gun operates between 0.1 and 10 pounds per square inch, gauge, (psig) air atomizing pressure, measured dynamically at the center of the air cap and at the air horns. For a gun permanently labeled HVLP by the manufacturer, a satisfactory demonstration shall either be in the form of manufacturer's published technical information or by a demonstration of the operation of the gun using an air pressure tip gauge from the manufacturer of the gun. For a gun not permanently labeled HVLP by the manufacturer, a satisfactory demonstration shall be based on manufacturer's published technical material and by a demonstration of the operation of the gun using an air pressure tip gauge from the manufacturer of the gun. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
10. The operator shall comply with the following work practice standards: 1) store all VOC-containing coatings, thinners, cleaning materials, and waste materials in closed non-absorbent and non-leaking containers, keeping the containers closed at all times except when specifically in use; 2) close mixing vessels that contain VOC coatings and other materials, except when specifically in use; 3) minimize spills of any VOC-containing materials and clean up spills immediately; and 4) convey VOC-containing materials in closed containers or pipes. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. VOC content of solvents used shall not exceed 25 g/l (0.21 lb/gal). [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
12. An operator shall store or dispose of fresh or spent solvents, waste solvent cleaning materials such as cloth, paper, etc., coatings, adhesives, catalysts, and thinners in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the container is empty. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
13. All solvents shall indicate on the solvent container, or on a separate product data sheet or material safety data sheet, the name of the solvent, manufacturer's name, the VOC content (in gm/liter or lb/gallon), and density of the solvent, as supplied. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
14. Each container or accompanying data sheet of any coating shall display: 1) a statement of the manufacturer's recommendation regarding thinning of the coating, excluding the thinning of coatings with water, and 2) the maximum VOC content of the coating, as applied, and after any thinning as recommended by the manufacturer. VOC content shall be displayed as grams of VOC per liter of coating (less water and exempt compounds). [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
15. The permittee shall maintain a current list of coatings and solvents in use which contains all of the coating data necessary to evaluate compliance, including the following information, as applicable: mix ratio of components used, VOC content and specific chemical constituents of coatings as applied, and VOC content and specific chemical constituents of solvents used for surface preparation and cleanup. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
16. On a daily basis, the permittee shall calculate and record the daily PM10 emissions, in pounds, for each coating applied. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Daily PM10 emissions of each coating applied shall be calculated as follows: $\text{daily PM10 emissions} = \text{coating density (lb/gallon)} \times \text{coating solids content (\%)} \times \text{usage (gallons/day)} \times 0.05 \times (1 - \text{Transfer Efficiency})$. The transfer efficiency is equal to: 0.75 for HVLP gun, and 1.0 for manual application (brush or roll). Total daily PM10 emissions is the sum of PM10 emissions from all coatings applied. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Daily VOC emissions of each coating and/or solvent shall be calculated as follows: $\text{daily VOC emissions} = \text{VOC content (lb/gallon)} \times \text{usage (gallon/day)}$. Total daily VOC emissions is the sum of VOC emissions from all coatings and/or solvents used. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Permittee shall maintain daily records of quantity (gallons), density, and solids content of coating applied. Permittee shall also maintain daily records of VOC content as applied (lb/gal) of each coating used, quantity (gallons) of each coating used, and calculated daily VOC emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Permittee shall maintain daily records of the following: application method, substrate coating applied to, quantity and type of coatings and solvents used, mix ratios (by volume) of components added to each coating, volume of coatings applied, VOC content of each coating as applied, and VOC content of each solvent or stripper. [District Rules 2201, 4603 and 4606] Federally Enforceable Through Title V Permit
21. Permittee shall keep annual VOC and PM10 emissions records for each coating operation based on a 12 month rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Records shall be retained on-site for a minimum of five years and made available for District inspection upon request. [District Rules 2201, 4603, and 4606] 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: C-535-49-1

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. {1898} 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. 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 Rules 4701 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.61 g-NOx/bhp-hr, 0.75 g-CO/bhp-hr, or 0.14 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. 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 Rules 4701 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 2201, 4102, 4701, and 4702, 17 CCR 93115, and 40 CFR 60 Subpart III] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rules 4701 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
14. 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 4701, 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III] 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: C-535-53-1

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. {1898} 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. 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 Rules 4701 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight shall be used. [District Rules 2201 and 4801, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.61 g-NOx/bhp-hr, 0.75 g-CO/bhp-hr, or 0.14 g-VOC/bhp-hr. [District Rule 2201, 17 CCR 93115, and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, 17 CCR 93115, and 40 CFR 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. 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 Rules 4701 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 2201, 4102, 4701, and 4702, 17 CCR 93115, and 40 CFR 60 Subpart III] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rules 4701 and 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
14. 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 4701, 4702, 17 CCR 93115, and 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit

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

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ATTACHMENT B

Previous Title V Operating Permit

Permit to Operate

FACILITY: C-535

EXPIRATION DATE: 01/31/2021

LEGAL OWNER OR OPERATOR:

FRESNO/CLOVIS REGIONAL WWTP

MAILING ADDRESS:

5607 W JENSEN AVE
FRESNO, CA 93706-9458

FACILITY LOCATION:

5607 W JENSEN AVE
FRESNO, CA 93706

FACILITY DESCRIPTION:

WASTEWATER RECLAMATION FACILITY

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Samir Sheikh
Executive Director / APCO

Brian Clements
Director of Permit Services

San Joaquin Valley

Air Pollution Control District

FACILITY: C-535-0-3

EXPIRATION DATE: 01/31/2021

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.

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. Should the facility, as defined in 40 CFR 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 CFR 68.10. The facility shall certify compliance as part of the annual certification as required by 40 CFR Part 70. [40 CFR Part 68] Federally Enforceable Through Title V Permit
43. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin March 23 of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: C-535-6-17

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS/NATURAL GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA LOW NOX BURNER AND SULFATREAT DIGESTER GAS TREATMENT SYSTEM

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grain/dscf at operating conditions, nor 0.1 grain/dscf calculated to 12% CO₂. [District Rules 4201 and 4301] Federally Enforceable Through Title V Permit
3. The boiler shall only be fired on the following fuels: 1) raw digester gas treated in the SulfaTreat system listed on this permit; 2) conditioned digester gas from the digester gas conditioning system under permit C-535-26; or 3) PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
4. 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]
5. Emissions from the boiler shall not exceed any of the following limits: 9 ppmvd NO_x @ 3% O₂ or 0.011 lb-NO_x/MMBtu, 0.026 lb-SO_x/MMBtu, 0.0048 lb-PM₁₀/MMBtu, 100 ppmvd CO @ 3% O₂ or 0.061 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. The sulfur content of any fuel used by the boiler shall not exceed 5 grains/100 dscf of total sulfur (equivalent to 79.6 ppm as H₂S). [District Rules 2201, 4320, and 4801] Federally Enforceable Through Title V Permit
7. When the unit is fired on digester gas fuel, daily testing of the digester gas is required so as to not exceed an average of 79.6 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within three (3) hours in order to maintain average below 79.6 ppm. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
8. The sulfur content of the digester gas fuel being fired in the unit shall be determined using ASTM D-1072, D-3031, D-4084, D3246, D-4810, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rules 2520 and 4320] Federally Enforceable Through Title V Permit
9. The boiler shall be equipped with an operational non-resettable, totalizing mass or volumetric flow meter on each fuel supply line. [District Rule 2201 and 40 CFR 60.48(c)(g)] Federally Enforceable Through Title V Permit
10. For each fuel type used, source testing to measure NO_x and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. For each fuel type used, if the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency for that fuel type shall revert to at least once every twelve (12) months. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. Source testing shall not be required for a fuel not exceeding the following limits in any rolling 12-month period: 2,899,306 scf of raw digester gas; 1,741,397 scf of conditioned digester gas; or 1,670,000 scf of PUC-quality natural gas (calculated based on 100 hours of operation at full load and higher heating values of 576 Btu/scf, 959 Btu/scf, and 1,000 Btu/scf, respectively). Upon exceeding these fuel usage limits in any rolling 12-month period for a given fuel type, a source test shall be completed within 60 days, unless source testing for that fuel type has been completed within the last 12 or 36 months, as normally would be required. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
12. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. If either the NO_x or CO concentrations corrected to 3% O₂, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 3% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4320. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Sampling facilities for source testing shall be provided in accordance with the provisions of Rule 1081 (Source Sampling). [District Rule 1081] Federally Enforceable Through Title V Permit
18. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
19. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
20. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

21. NO_x emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
22. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
23. Stack gas oxygen (O₂) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
24. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
25. Records of daily consumption of each fuel and daily sulfur testing results of digester gas fuel shall be maintained. [District Rules 1070 and 2520; and 40 CFR 60.48(c)(g)] Federally Enforceable Through Title V Permit
26. 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, 4305, 4306, and 4320; and 40 CFR 60.48(c)(i)] 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: C-535-9-15

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. The flare shall be operated in a manner preventing the emission of noxious odors or other nuisances. [District Rule 4102]
3. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The waste gas flare system shall be specifically designed for burning wastewater treatment plant digester gas, and alternate fuel may be used as pilot fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The flare shall be equipped and operated with a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame. [District Rule 4311] Federally Enforceable Through Title V Permit
6. The flare system shall have continuous readout and recording of gas flow rate and stack temperature. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Flare flue gas temperature shall be maintained to at least 1,400 °F and 0.6 seconds minimum residence time. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Total volume of gaseous fuel flared shall not exceed 1,584,000 scf per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. A flame shall be present at all times in the flare whenever combustible gases are vented through the flare. [District Rule 4311] Federally Enforceable Through Title V Permit
10. The flare shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares. [District Rule 4311] Federally Enforceable Through Title V Permit
11. Daily testing of digester gas is required so as to not exceed an average of 200 ppm as hydrogen sulfide (H₂S). Corrections shall be made, and re-tested within 3 hours in order to maintain average below 200 ppm. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Emissions shall not exceed any of the following limits: 0.18 lb PM₁₀/hr, 1.8 lb SO_x/hr, 2.2 lb NO_x/hr, or 10.5 lb CO/hr. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
13. VOC emissions shall not exceed 0.0027 lb-VOC/MMBtu. [District Rules 2201 and 4311] 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.

14. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall be calculated as follows: Annual NOx Emissions (lbs/year) = [(33.0 lb/MMscf x Waste Gas Flare's Annual Fuel Combusted (MMscf/year)) + (1.13 lbs/hr x IC Engine Powering an Air Compressor Annual Hours of Operation (hrs/year)) + (0.51 lbs/hr x IC Engine Powering a Pump Annual Hours of Operation (hrs/year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. This standard does not apply if the APCO determines that the flaring is caused by an emergency as defined by Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere. [District Rule 4311] Federally Enforceable Through Title V Permit
17. Source testing to measure digester gas-combustion NOx and VOC emissions from this unit shall be conducted at least once every twelve (12) months. [District Rule 4311] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 45 days thereafter. [District Rule 4311] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rules 1081 and 4311] Federally Enforceable Through Title V Permit
20. VOC emissions for source test purposes, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". [District Rule 4311] Federally Enforceable Through Title V Permit
21. NOx emissions for source test purposes, in pounds per million Btu, shall be determined by using EPA Method 19. [District Rule 4311] Federally Enforceable Through Title V Permit
22. NOx and O2 concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100. [District Rule 4311] Federally Enforceable Through Title V Permit
23. The operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, which ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time. [District Rule 4311] Federally Enforceable Through Title V Permit
24. The operator of a flare subject to flare minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include, but is not limited to all of the following: the results of an investigation to determine the primary cause and contributing factors of the flaring event; any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented; if appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and the date, time, and duration of the flaring event. [District Rule 4311] 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.

25. The operator of a flare subject to flare monitoring requirements pursuant to Section 5.10 shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following: the total volumetric flow of vent gas in standard cubic feet for each day; if the flow monitor used pursuant to Section 5.10 measures molecular weight, the average molecular weight for each hour of each month; a flow verification report which shall include flow verification testing pursuant to Section 6.3.5. [District Rule 4311] Federally Enforceable Through Title V Permit
26. For purposes of the flow verification report required by Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA: EPA Methods 1 and 2; a verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10; tracer gas dilution or velocity; other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter. [District Rule 4311] Federally Enforceable Through Title V Permit
27. The operator shall monitor and record the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. [District Rule 4311] Federally Enforceable Through Title V Permit
28. The sulfur content of gas being flared shall be determined using ASTM D-1072, D-3031, D-4084, D 3246, D-4810, or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. The flare shall be operated according to the manufacturer's specifications, a copy of which shall be maintained on site. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. This flare shall be inspected annually while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If excess emissions continue, a EPA Method 9 test shall be conducted within 72 hours. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. Daily records of total gas flared shall be maintained. [District Rules 2201 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
32. Records of flare maintenance, inspections and repair shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
33. Records of daily sulfur testing results shall be maintained. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
34. Permittee shall maintain the following records: a copy of the source testing result conducted pursuant to Section 6.4.2; a copy of the approved flare minimization plan pursuant to Section 6.5; a copy of annual reports submitted to the APCO pursuant to Section 6.2. [District Rule 4311] Federally Enforceable Through Title V Permit
35. Permittee shall maintain records of the following when the flare is used during an emergency: duration of flare operation, amount of gas burned, and the nature of the emergency situation. [District Rule 4311] Federally Enforceable Through Title V Permit
36. Records of the total annual NO_x emissions from units C-535-9, -24 and -44 shall be maintained and updated monthly. [District Rule 1070] Federally Enforceable Through Title V Permit
37. 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 4311] 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: C-535-10-3

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

2518 BHP CATERPILLAR MODEL 3516 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District NSR Rule, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. 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
5. 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
6. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The engine shall be equipped with a turbocharger and with an aftercooler or intercooler. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
9. 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 20 hours per calendar year. [District NSR Rule, 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. 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
11. 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
12. 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

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 of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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 Rule 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: C-535-11-3

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

140 BHP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #1
POWERING A WATER TRANSFER PUMP

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 2520, 9.3.2, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. 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
5. 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 20 hours per calendar year. [District NSR Rule, 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
14. 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 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: C-535-12-3

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

140 HP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #2 SERVING A WATER TRANSFER PUMP

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 2520, 9.3.2, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. 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
5. 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 20 hours per calendar year. [District NSR Rule, 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
8. NOx emission rate shall not exceed 6.0 g/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
9. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
10. 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
11. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rule 4702] Federally Enforceable Through Title V Permit
13. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
14. 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 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: C-535-13-6

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

150 HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Maximum design influent flow rate through headworks shall not exceed 106 MGD. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The total emissions from this operation shall not exceed 0.075 pounds VOC per MGD of influent flow. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Scrubbers shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Scrubber liquid to gas ratio shall be observed and recorded weekly during operation of this unit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of scrubber liquid to gas ratio shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Records of daily influent flow rate through headworks shall be maintained and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2] 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 1070 and 2520, 9.4.2] 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: C-535-17-3

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

455 BHP CUMMINS MODEL NTA855 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ONAN MODEL 350DFCC, 350 KW ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 4801, Fresno County Rule 406, and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. 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
5. 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 20 hours per calendar year. [District NSR Rule, 4701 and 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Emissions shall not exceed 5.61 g NOx/bhp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
9. 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
10. 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
11. 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
12. 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

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 of the type of fuel purchased. [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] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
16. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201 and Fresno County Rule 406. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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: C-535-24-4

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE
POWERING AN AIR COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
5. The only approved storage and operational location for this IC engine shall be Facility C-535 at 5607 W Jensen Avenue, Fresno. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is maintained at a storage location shall be excluded from the residency time determination. [District Rule 4701, 40 CFR Part 89, 13 CCR 2421, and 17 CCR 93116] Federally Enforceable Through Title V Permit
7. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall be calculated as follows: Annual NOx Emissions (lbs/year) = [(33.0 lb/MMscf x Waste Gas Flare's Annual Fuel Combusted (MMscf/year)) + (1.13 lbs/hr x IC Engine Powering an Air Compressor Annual Hours of Operation (hrs/year)) + (0.51 lbs/hr x IC Engine Powering a Pump Annual Hours of Operation (hrs/year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from this IC engine shall not exceed any of the following limits: 4.10 g-NOx/bhp-hr, 0.75 g-CO/bhp-hr, or 0.30 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
10. Emissions from this IC engine shall not exceed 0.19 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93116] Federally Enforceable Through Title V Permit
11. 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

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, 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
13. The permittee shall maintain an engine-operating log that shall include the following: daily records of the date, location at the facility, operational time; a record of the cumulative annual hours of operation of the engine; and records of operational characteristics monitoring. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
14. Records of the total annual NOx emissions from units C-535-9, -24 and -44 shall be maintained and updated monthly. [District Rule 1070] Federally Enforceable Through Title V Permit
15. 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 and 17 CCR 93116] 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: C-535-26-6

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

DIGESTER GAS TREATMENT SYSTEM CONSISTING OF A CHILLER; COMPRESSOR; HYDROGEN SULFIDE REMOVAL UNIT; MEMBRANE PROCESSING UNIT; A 7.46 MMBTU/HR JOHN ZINK MODEL ZBRID WASTE GAS COMBUSTION DEVICE USING RAW DIGESTER GAS OR PUC-QUALITY NATURAL GAS AS SUPPLEMENTAL FUEL; AND ACTIVATED CARBON ADSORPTION BEDS

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions from the exhaust of the combustion device shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. 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]
4. The combustion device shall only be fired on raw digester gas or PUC-quality natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emission rates from the combustion device shall not exceed any of the following limits: NO_x - 0.06 lb/MMBtu; CO - 0.20 lb/MMBtu; 20 ppmv VOC @ 3% O₂ (as hexane) or 0.084 lb-VOC/MMBtu; or PM₁₀ - 0.016 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The H₂S content of the raw digester gas processed through this gas treatment system shall not exceed 200 ppmv. [District Ruled 2201 and 4801] Federally Enforceable Through Title V Permit
7. Source testing of the NO_x and CO emissions from the exhaust of the combustion device shall be performed at least once every five years. Source testing is only required for the fuel type being used at the time. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
8. Within 60 days of commencing operation after switching the fuel type between digester gas and PUC-quality natural gas, source testing of the NO_x and CO emissions from the exhaust of the combustion device shall be performed on the new fuel type, unless source testing on the new fuel has been completed within the last 5 years. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Testing to demonstrate compliance with the raw digester gas H₂S content limit shall be conducted quarterly. Once eight (8) consecutive quarterly test show compliance, the H₂S content testing frequency may be reduce to once every calendar year. If an annual test shows violation of the H₂S content limit, then quarterly testing shall resume and continue until eight (8) consecutive tests show compliance. Once compliance is shown on eight (8) consecutive quarterly tests, then testing may return to once every calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. NO_x emissions for source test purposes shall be determined using EPA Method 19. [District Rules 2201 and 2520] 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. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
13. Testing to measure the H₂S content of the fuel shall be conducted using either EPA Method 15, ASTM Method D1072, D3031, D3246, D4084, D4810, D5504, D6228 or with the use of the Testo 350 XL portable analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The combustion zone of the combustion device shall be maintained at a minimum of 1,400 degrees Fahrenheit. [District Rule 2520] Federally Enforceable Through Title V Permit
16. The combustion device shall be equipped with a continuous temperature monitoring and recording device, in operation at all times. [District Rule 2520] Federally Enforceable Through Title V Permit
17. The permittee shall maintain daily records of the thermal oxidizer combustion temperature. [District Rule 2520] Federally Enforceable Through Title V Permit
18. The permittee shall maintain records of: (1) daily amount of waste gas, raw digester gas, and/or PUC-quality natural gas consumed by the combustion device, in standard cubic feet; (2) copy of source test reports; and (3) copies of all annual reports submitted to the District. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
19. 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 2201 and 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: C-535-28-1

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

UNCONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB SARACCO NATIONAL BOARD #34188 BLASTING POT (POWERED BY ENGINE PERMITTED UNDER C-535-24)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. The blasting operations shall be carried out in a manner to prevent any nuisances. [District Rule 4102]
3. All abrasive blasting shall be conducted in accordance with California Code of Regulations Title 17, Subchapter 6, Sections 92000 through 92540. [92000 through 92540 CCR]
4. A used certified abrasive shall not be considered certified for reuse unless the abrasive conforms to its original cut-point fineness. [92530 CCR]
5. Unconfined abrasive blasting operations shall not discharge air contaminants into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 2 or equivalent to 40% opacity. [92200 CCR]
6. Except as otherwise provided in this permit, abrasive blasting shall be conducted within a permanent building unless steel or iron shot/grit is used. [92500 CCR]
7. Abrasive blasting of items exceeding 8 feet in any dimension, or of a surface situated at its permanent location, or no further away from its permanent location than is necessary to allow the surface to be blasted, may be performed outside a permanent building only if one of the following is used: steel or iron shot/grit; abrasives certified by CARB for permissible dry outdoor blasting; wet abrasive blasting, hydroblasting; or vacuum blasting. [92500 CCR]
8. Unconfined abrasive blasting shall be limited to 5 hours in any one day and 250 hours per rolling 12-month period. [District Rule 4102]
9. Operator shall record the date and hours when unconfined blasting occurs. [District Rules 1070 and 4102]
10. All records required by this permit shall be retained on-site for a period of at least five years and shall be made available for District inspection upon request. [District Rules 1070 and 4102]

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

San Joaquin Valley

Air Pollution Control District

PERMIT UNIT: C-535-44-0

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

TRANSPORTABLE 74 BHP JOHN DEERE MODEL 4045TFC03 TIER 4 FINAL CERTIFIED DIESEL-FIRED IC ENGINE POWERING A PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
3. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93116] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93116] Federally Enforceable Through Title V Permit
5. Operation of this engine shall not exceed 2,160 hours per year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The only approved storage and operational location for this IC engine shall be Facility C-535 at 5607 W Jensen Avenue, Fresno. [District Rule 2201] Federally Enforceable Through Title V Permit
7. This transportable IC engine shall not be attached to a foundation or operated at any location at this facility for more than 12 consecutive months. The period during which the engine is maintained at a storage location shall be excluded from the residency time determination. [District Rule 4701, 40 CFR Part 89, 13 CCR 2421, and 17 CCR 93116] Federally Enforceable Through Title V Permit
8. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall not exceed 19,272 pounds in any calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Total combined annual NOx emissions from the waste gas flare (C-535-9), the transportable diesel-fired IC engine powering an air compressor (C-535-24), and the transportable diesel-fired IC engine powering a pump (C-535-44) shall be calculated as follows: Annual NOx Emissions (lbs/year) = [(33.0 lb/MMscf x Waste Gas Flare's Annual Fuel Combusted (MMscf/year)) + (1.13 lbs/hr x IC Engine Powering an Air Compressor Annual Hours of Operation (hrs/year)) + (0.51 lbs/hr x IC Engine Powering a Pump Annual Hours of Operation (hrs/year))]. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Emissions from this IC engine shall not exceed any of the following limits: 3.12 g-NOx/bhp-hr, 0.0746 g-CO/bhp-hr, or 0.16 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93116] Federally Enforceable Through Title V Permit
11. Emissions from this IC engine shall not exceed 0.0007 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93116] Federally Enforceable Through Title V Permit
12. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. During periods of operation, 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
14. The permittee shall maintain an engine-operating log that shall include the following: daily records of the date, location at the facility, operational time; a record of the cumulative annual hours of operation of the engine; and records of operational characteristics monitoring. [District Rules 2201 and 4702] Federally Enforceable Through Title V Permit
15. Records of the total annual NOx emissions from units C-535-9, -24 and -44 shall be maintained and updated monthly. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
16. 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 and 17 CCR 93116] 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: C-535-48-0

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

METAL PARTS AND PRODUCTS AND WOOD PRODUCTS COATING OPERATIONS SERVED BY A PAINT SPRAY BOOTH WITH DRY EXHAUST FILTERS

PERMIT UNIT REQUIREMENTS

1. 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]
2. All coating shall be conducted in booth with filters in place, fan(s) operating, and doors closed. [District Rule 2201] Federally Enforceable Through Title V Permit
3. VOC emissions from metal parts and products coating operations shall not exceed 11.2 lb/day or 280 lb/year. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
4. VOC emissions from wood products coating operations shall not exceed 9.2 lb/day or 230 lb/year. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
5. PM10 emissions from each coating operations shall not exceed 0.3 lb/day or 7 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
6. For the metal parts and products coating operation, the VOC content of any coating as applied, excluding water and exempt compounds, shall not exceed 340 g/l (2.8 lb/gal). [District Rules 2201 and 4603] Federally Enforceable Through Title V Permit
7. For the wood products coating operation, the VOC content of any coating as applied, excluding water and exempt compounds, shall not exceed either of the following limits: clear topcoat 275 g/l (2.3 lb/gallon), or pigmented coating 275 g/l (2.3 lb/gallon). [District Rules 2201 and 4606] Federally Enforceable Through Title V Permit
8. Only HVLP, roll, or brush coating application equipment, or other application equipment pre-approved by the District in writing, shall be used. All application equipment shall be operated in accordance with the manufacturer's recommendations. [District Rules 2201, 4603 and 4606] Federally Enforceable Through Title V Permit
9. If an HVLP spray gun is used, the operator must demonstrate that the spray gun operates between 0.1 and 10 pounds per square inch, gauge, (psig) air atomizing pressure, measured dynamically at the center of the air cap and at the air horns. For a gun permanently labeled HVLP by the manufacturer, a satisfactory demonstration shall either be in the form of manufacturer's published technical information or by a demonstration of the operation of the gun using an air pressure tip gauge from the manufacturer of the gun. For a gun not permanently labeled HVLP by the manufacturer, a satisfactory demonstration shall be based on manufacturer's published technical material and by a demonstration of the operation of the gun using an air pressure tip gauge from the manufacturer of the gun. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
10. The operator shall comply with the following work practice standards: 1) store all VOC-containing coatings, thinners, cleaning materials, and waste materials in closed non-absorbent and non-leaking containers, keeping the containers closed at all times except when specifically in use; 2) close mixing vessels that contain VOC coatings and other materials, except when specifically in use; 3) minimize spills of any VOC-containing materials and clean up spills immediately; and 4) convey VOC-containing materials in closed containers or pipes. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. VOC content of solvents used shall not exceed 25 g/l (0.21 lb/gal). [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
12. An operator shall store or dispose of fresh or spent solvents, waste solvent cleaning materials such as cloth, paper, etc., coatings, adhesives, catalysts, and thinners in closed, non-absorbent and non-leaking containers. The containers shall remain closed at all times except when depositing or removing the contents of the containers or when the container is empty. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
13. All solvents shall indicate on the solvent container, or on a separate product data sheet or material safety data sheet, the name of the solvent, manufacturer's name, the VOC content (in gm/liter or lb/gallon), and density of the solvent, as supplied. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
14. Each container or accompanying data sheet of any coating shall display: 1) a statement of the manufacturer's recommendation regarding thinning of the coating, excluding the thinning of coatings with water, and 2) the maximum VOC content of the coating, as applied, and after any thinning as recommended by the manufacturer. VOC content shall be displayed as grams of VOC per liter of coating (less water and exempt compounds). [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
15. The permittee shall maintain a current list of coatings and solvents in use which contains all of the coating data necessary to evaluate compliance, including the following information, as applicable: mix ratio of components used, VOC content and specific chemical constituents of coatings as applied, and VOC content and specific chemical constituents of solvents used for surface preparation and cleanup. [District Rules 4603 and 4606] Federally Enforceable Through Title V Permit
16. On a daily basis, the permittee shall calculate and record the daily PM10 emissions, in pounds, for each coating applied. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Daily PM10 emissions of each coating applied shall be calculated as follows: $\text{daily PM10 emissions} = \text{coating density (lb/gallon)} \times \text{coating solids content (\%)} \times \text{usage (gallons/day)} \times 0.05 \times (1 - \text{Transfer Efficiency})$. The transfer efficiency is equal to: 0.75 for HVLP gun, and 1.0 for manual application (brush or roll). Total daily PM10 emissions is the sum of PM10 emissions from all coatings applied. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Daily VOC emissions of each coating and/or solvent shall be calculated as follows: $\text{daily VOC emissions} = \text{VOC content (lb/gallon)} \times \text{usage (gallon/day)}$. Total daily VOC emissions is the sum of VOC emissions from all coatings and/or solvents used. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Permittee shall maintain daily records of quantity (gallons), density, and solids content of coating applied. Permittee shall also maintain daily records of VOC content as applied (lb/gal) of each coating used, quantity (gallons) of each coating used, and calculated daily VOC emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Permittee shall maintain daily records of the following: application method, substrate coating applied to, quantity and type of coatings and solvents used, mix ratios (by volume) of components added to each coating, volume of coatings applied, VOC content of each coating as applied, and VOC content of each solvent or stripper. [District Rules 2201, 4603 and 4606] Federally Enforceable Through Title V Permit
21. Permittee shall keep annual VOC and PM10 emissions records for each coating operation based on a 12 month rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Records shall be retained on-site for a minimum of five years and made available for District inspection upon request. [District Rules 2201, 4603 and 4606] 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: C-535-49-0

EXPIRATION DATE: 01/31/2021

EQUIPMENT DESCRIPTION:

247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The exhaust stack shall 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. 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. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801, and 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 2.61 g-NOx/bhp-hr, 0.75 g-CO/bhp-hr, or 0.14 g-VOC/bhp-hr. [District Rule 2201 and 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.10 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201 and 4102, and 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
8. 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
9. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. 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
12. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 2201, 4102, and 4702, and 17 CCR 93115 and 40 CFR Part 60 Subpart IIII] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. 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 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: C-535-53-0

EXPIRATION DATE: 01/31/2021

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247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

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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=535 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

FRESNO/CLOVIS REGIONAL WWTP 5607 W JENSEN AVE FRESNO, CA 93706	FAC # STATUS: TELEPHONE:	C 535 A 2094981707	TYPE: TOXIC ID:	TitleV 40042	EXPIRE ON: AREA: INSP. DATE:	01/31/2021 4 / 09/22
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-535-6-17	16.7 MMBtu/hr	3020-02 H	1	1,238.00	1,238.00	A	16.7 MMBTU/HR CLEAVER-BROOKS MODEL CBI-700-400 DIGESTER GAS/NATURAL GAS-FIRED BOILER WITH AN ALZETA MODEL CSB167R ULTRA LOW NOX BURNER AND SULFATREAT DIGESTER GAS TREATMENT SYSTEM
C-535-9-15	36.3 MMBtu/hr burner	3020-02 H	1	1,238.00	1,238.00	A	36.3 MMBTU/HR JOHN ZINK COMPANY WASTE GAS FLARE
C-535-10-3	2518 bhp	3020-10 F	1	900.00	900.00	A	2307 BHP CATERPILLAR MODEL 3516 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 1750 KW ELECTRICAL GENERATOR
C-535-11-3	140 bhp	3020-10 B	1	143.00	143.00	A	140 BHP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #1 POWERING A WATER TRANSFER PUMP
C-535-12-3	140 bhp	3020-10 B	1	143.00	143.00	A	140 HP CATERPILLAR MODEL #3116-DIT DIESEL-FIRED TURBOCHARGED EMERGENCY IC ENGINE #2 SERVING A WATER TRANSFER PUMP
C-535-13-6	150 electric hp	3020-01 D	1	379.00	379.00	A	150 HP ODOR CONTROL SCRUBBING SYSTEM INCLUDING THREE(3) 50 HP RJ ENVIRONMENTAL PACKED TOWER CAUSTIC SCRUBBERS EACH EQUIPPED WITH A KIMRE MIST ELIMINATOR MODEL B-GON
C-535-17-3	455 bhp	3020-10 D	1	577.00	577.00	A	455 BHP CUMMINS MODEL NTA855 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ONAN MODEL 350DFCC, 350 KW ELECTRICAL GENERATOR
C-535-24-4	125 bhp IC engine	3020-10 B	1	143.00	143.00	A	TRANSPORTABLE 125 BHP JOHN DEERE MODEL 4045HF275 TIER 3 CERTIFIED DIESEL-FIRED IC ENGINE POWERING AN AIR COMPRESSOR
C-535-26-6	7.46 MMBtu/hr	3020-02 G	1	980.00	980.00	A	DIGESTER GAS TREATMENT SYSTEM CONSISTING OF A CHILLER; COMPRESSOR; HYDROGEN SULFIDE REMOVAL UNIT; MEMBRANE PROCESSING UNIT; A 7.46 MMBTU/HR JOHN ZINK MODEL ZBRID WASTE GAS COMBUSTION DEVICE USING RAW DIGESTER GAS OR PUC-QUALITY NATURAL GAS AS SUPPLEMENTAL FUEL; AND ACTIVATED CARBON ADSORPTION BEDS
C-535-28-1	unconfined abrasive blasting	3020-06	1	128.00	128.00	A	UNCONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB SARACCO NATIONAL BOARD #34188 BLASTING POT (POWERED BY ENGINE PERMITTED UNDER C-535-24)
C-535-44-0	74 bhp	3020-10 A	1	98.00	98.00	A	TRANSPORTABLE 74 BHP JOHN DEERE MODEL 4045TFC03 TIER 4 FINAL CERTIFIED DIESEL-FIRED IC ENGINE POWERING A PUMP
C-535-48-0	18 hp (electrical motor)	3020-01 A	1	107.00	107.00	A	METAL PARTS AND PRODUCTS AND WOOD PRODUCTS COATING OPERATIONS SERVED BY A PAINT SPRAY BOOTH WITH DRY EXHAUST FILTERS
C-535-49-0	247 BHP	3020-10 C	1	290.00	290.00	A	247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Detailed Facility Report
For Facility=535 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-535-53-0	247 bhp IC engine	3020-10 C	1	290.00	290.00	A	247 BHP (INTERMITTENT) CATERPILLAR (PERKINS) MODEL C7.1PGABR TIER 3 CERTIFIED DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Number of Facilities Reported: 1