

AIR QUALITY

MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT

A/C NO.: 26098

DATE ISSUED: APRIL 1, 2019

DATE EXPIRES: APRIL 1, 2021

ISSUED TO: KIEFER LANDFILL, DEPARTMENT OF WASTE MANAGEMENT AND RECYCLING,
COUNTY OF SACRAMENTO

LOCATION: 12701 KIEFER BLVD., SLOUGHHOUSE, CA 95683

DESCRIPTION: MODIFICATION OF P/O 25438: IC ENGINE NON-ROAD, MAKE: JOHN DEERE, MODEL:
4045HFC04, SERIAL NO.: PE4045U053337, 99 BHP @ 2,200 RPM, 4.5 L
DISPLACEMENT, DIESEL FIRED, DRIVING A VACUUM SYSTEM AND
BRUSHES ON A STREET SWEEPER: FOR THE REPLACEMENT OF EXPIRING ERCS.

ISSUED BY:


JORGE DEGUZMAN**AUTHORITY TO CONSTRUCT CONDITIONS****START-UP REQUIREMENTS**

- S1. After completing the equipment installation authorized under this Authority to Construct (ATC), the permit holder must contact the Sacramento Metropolitan Air Quality Management District (SMAQMD) to arrange a start-up inspection. SMAQMD may be contacted at (916) 874-4800.
[Basis: SMAQMD Rule 201, Section 405]
- S2. This Authority to Construct may serve as a temporary Permit to Operate provided that:
- A. The permit holder has notified SMAQMD that the equipment installation is complete and the facility is ready for a start-up inspection,
 - B. The equipment installed matches the equipment authorized in this Authority to Construct,
 - C. The equipment is operated in compliance with all conditions in this Authority to Construct, and
 - D. The equipment and its operation complies with SMAQMD, state and federal laws and regulations.
- [Basis: SMAQMD Rule 201, Section 303.1, 405]**
- S3. The permit holder agrees to indemnify and defend SMAQMD, its officers, agents, and employees if this permit, or the environmental review of the permit under the California Environmental Quality Act (CEQA) or the National Environmental Policy Act (NEPA), including any exemption determination, is challenged in state or federal court. This indemnification includes attorney fees awarded against SMAQMD, as well as attorney fees, court costs, legal fees, and other expenses incurred in defending the challenge. The District will provide written notice to the permit holder within 5 days if it receives a petition, complaint or other legal notice by a third party challenging this Authority to Construct (ATC) or the environmental review of the ATC. The permit holder may, within 10 days of notification, request cancellation of the ATC. If the permit holder requests cancellation, SMAQMD will cancel the permit within 5 days, and will notify the plaintiffs of the cancellation and request dismissal of the litigation.
[Basis: SMAQMD Rule 201, Section 405]

**AIR QUALITY
MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT**

- S4. A permit application for an Administrative Title V permit amendment must be submitted after the issuance of this Authority to Construct.
[Basis: SMAQMD Rule 202, Section 101 and Rule 214, Section 101]

GENERAL

1. The equipment must be properly maintained and operated in accordance with the information submitted with the application and the manufacturer's recommendations at all times.
[Basis: SMAQMD Rule 201, Section 405 and Rule 202, Section 408.1]
2. The Air Pollution Control Officer and/or authorized representatives must be permitted to do all of the following:
 - A. Enter the source premises or any location at which any records required by this ATC are kept.
 - B. Access and copy any records required by this ATC.
 - C. Inspect or review any equipment, operation, or method required under this ATC.
 - D. Sample emissions from the source or require samples to be taken.**[Basis: SMAQMD Rule 201, Section 405]**
3. This ATC does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the California Health and Safety Code or the SMAQMD Rules and Regulations.
[Basis: SMAQMD Rule 201, Sections 303.1, 405]
4. The facility may not discharge air contaminants or other materials that 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 persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
[Basis: SMAQMD Rule 402, Section 301]
5. A legible copy of this ATC must be maintained on the premises with the equipment.
[Basis: SMAQMD Rule 201, Section 401]

EMISSION LIMITATIONS

6. The IC engine must not discharge into the atmosphere any visible air contaminant other than uncombined water vapor for a period or periods aggregating more than three minutes in any one hour if the discharge is as dark or darker than Ringelmann No. 1 or is equal to or greater than 20% opacity.
[Basis: SMAQMD Rule 401, Section 301]
7. The portable IC engine must meet the following BACT standards:
 - A. EPA-certified Tier 4 engine,
 - B. An engine that meets the following standards:
NOx: 0.30 g/hp-hr
VOC: 0.14 g/hp-hr
 - C. Use of CARB-approved diesel fuel or a fuel that meets the CARB requirements in 17 CCR Section 93115.5**[Basis: SMAQMD Rule 202, Section 408.2.a and Title 13 CCR, Section 2025]**

AIR QUALITY MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT

8. The emissions from the IC engine must not exceed the following:
[Basis: SMAQMD Rules 201, Section 405]

Pollutant	Emission Factor g/hp-hr (A)	Emission Limits (B)					
		Daily lb/day	Quarter 1 lb/quarter	Quarter 2 lb/quarter	Quarter 3 lb/quarter	Quarter 4 lb/quarter	Annual lb/year
VOC	0.14	0.7	16	16	16	16	64
NOx	0.30	1.6	34	34	34	34	136
SOx	0.005	0.0	1	1	1	1	4
PM10	0.01	0.1	1	1	1	1	4
PM2.5	0.01	0.1	1	1	1	1	4
CO	0.67	3.5	76	76	76	76	304

(A) Emission factors for NOx, VOC and PM10 are based on the EPA non-road Tier 4 Final standard. The CO emission factor is based on the certified emission of CARB Executive Order U-R-004-0315. PM10 and PM2.5 emission factors include both the condensable portion and the filterable portion of the particulates. The filterable portion is based on the certification standard and the condensable portion is derived using the condensable to filterable fraction, taken from AP-42, Table 3.4-2 (10/96), multiplied by the certification standard ((0.01 g/hp-hr + 0.01 g/hp-hr * 0.0077/0.0496)=0.01 g/hp-hr) and assuming that all PM is PM10 and PM2.5. SOx emission factor is based on AP-42, Table 3.3-1 (10/96) using a fuel sulfur content of 15 ppm.

(B) Emissions are based on 99 bhp, 24 hours/day, and 520 hours/quarter. The yearly emissions are equal to the cumulative of the quarterly emissions.

EQUIPMENT OPERATION

9. The IC engine must not remain at the same location for more than 12 consecutive months.

A. "Location" is defined as any single site at a building, structure, facility or installation by SMAQMD Rule 412 Section 208.

[Basis: SMAQMD Rule 201, Section 405]

10. The IC engine must not operate more than the following hours:
[Basis: SMAQMD Rules 201, Section 405]

Equipment	Maximum Allowable Operating Hours	
	hours/day	hours/quarter
IC Engine	24	520

AIR QUALITY**MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT**

11. The IC engine must be equipped with a non-resetting totalizing hour meter.
[Basis: SMAQMD Rule 201, Section 405]
12. To determine whether the engine complies with opacity requirements, the Air Pollution Control Officer or designee may require the permit holder to operate the IC engine during a SMAQMD inspection. The inspection will be conducted during daylight hours, and the IC engine must be operated at maximum anticipated load and from a cold start condition.
[Basis: SMAQMD Rule 201, Section 405]
13. The IC engine may only be fueled with a CARB-approved diesel fuel or a fuel that meets the CARB requirements in 17 CCR Section 93116.3.
[Basis: SMAQMD Rule 202, Section 301]
14. The exhaust stack of the IC engine must exit vertically and must not be obstructed during engine operation. A flapper-type rain cap is permitted provided it does not impede the vertical exhaust flow.
[Basis: SMAQMD Rule 201, Section 405 and Rule 402, Section 301]
15. The IC engine must comply with the requirements of Title 13 California Code of Regulations, Section 2025 *Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Diesel-Fueled Vehicles*.
[Basis: Title 13 CCR, Section 2025]

RECORD KEEPING & REPORTING

16. The following records must be continuously maintained onsite for the most recent five year period and must be made available to the SMAQMD Air Pollution Control Officer upon request. Quarterly records must be made available for inspection within 30 days of the end of the previous quarter.
[Basis: SMAQMD Rule 201, Section 405]

Frequency	Information to be Recorded
Quarterly	A. The number of hours that the IC engine operated. (hours/quarter)

17. The permit holder must, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.).
[Basis: SMAQMD Rule 201, Section 303.1]

AIR QUALITY

MANAGEMENT DISTRICT

AUTHORITY TO CONSTRUCT**EMISSION OFFSETS**

18. The County of Sacramento Department of Waste Management and Recycling (Kiefer Landfill) must provide sufficient emission reduction credits to the Air Pollution Control Officer to fully offset the following amount of emissions:

[Basis: SMAQMD Rule 202, Section 302 and Rule 214, Section 302]

Pollutant	Credits from the Essential Public Services Bank Account (A) (lb/quarter)			
	Quarter 1	Quarter 2	Quarter 3	Quarter 4
VOC	16	16	16	16
NOx	34	34	34	34
SOx	1	1	1	1
PM10	1	1	1	1

(A) These credits are returned to the Priority Reserve Bank if the permit to operate is surrendered, revoked, not renewed or ownership is transferred.

19. The following emission reduction credits (ERCs) have been provided by the County of Sacramento Department of Waste Management and Recycling (Kiefer Landfill) to fully offset the emissions specified in Condition No. 18:

[Basis: SMAQMD Rule 202, Sections 408 and 409, Rule 205, Section 316, and Rule 214, Sections 408 and 409]

Emission Reduction Credits	Pollutant	Emission Offsets Provided (A)(B)(C) (lb/quarter)			
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Essential Public Services Account SMAQMD Priority Reserve Bank PXX-XXXX	VOC	16	16	16	16
	NOx	34	34	34	34
	SOx	1	1	1	1
	PM10	1	1	1	1

(B) Emission offset provided at an offset ratio of 1.0 to 1.0.

(C) These credits are returned to the Priority Reserve Bank if the permit to operate is surrendered, revoked, not renewed or ownership is transferred.

20. The borrowed emission reduction credits specified in Condition No. 19 are valid only if the facility operates in a manner consistent with the requirements of Rule 205 – COMMUNITY BANK AND PRIORITY RESERVE BANK and the facts, including the information provided in the application, that were presented to the Board of Directors

AIR QUALITY**MANAGEMENT DISTRICT****AUTHORITY TO CONSTRUCT**

[Basis: SMAQMD Rule 205, Section 307.7]

21. In order for ownership of this process to be transferred, the new owner must provide replacement credits for those credits that were returned pursuant to Condition No. 19.

[Basis: SMAQMD Rule 205, Section 315]

22. **This permit will expire on April 1, 2024, unless replacement credits have been provided.** To replace credits specified in Condition No. 19. The facility must submit an application to modify the current permit six months prior to April 1, 2024. Failure to provide replacement credits after April 1, 2024, will require the facility to reapply for a permit and the equipment will be subject to Rule 202 New Source Review and Rule 214 Federal New Source Review at the time of re-permitting.

[Basis: SMAQMD Rule 205, Sections 307 and 312]

Your application for this air quality Authority to Construct was evaluated for compliance with Sacramento Metropolitan Air Quality Management District (SMAQMD), state and federal air quality rules. The following list identifies the rules that most commonly apply to the operation of your equipment. Other rules may also be applicable.

<u>SMAQMD RULE NO.</u>	<u>RULE TITLE</u>
201	GENERAL PERMIT REQUIREMENTS (8-24-06)
202	NEW SOURCE REVIEW (8-23-12)
205	COMMUNITY BANK AND PRIORITY RESERVE BANK (7-1-17)
214	FEDERAL NEW SOURCE REVIEW (8-23-12)
401	RINGELMANN CHART (4-19-83)
402	NUISANCE (8-3-77)
406	SPECIFIC CONTAMINANTS (12-6-78)
420	SULFUR CONTENT OF FUELS (8-13-81)
<u>STATE</u>	<u>REGULATION TITLE</u>
TITLE 13, CCR SECTION 2025	REGULATION TO REDUCE EMISSIONS OF DIESEL PARTICULATE MATTER, OXIDES OF NITROGEN AND OTHER CRITERIA POLLUTANTS FROM IN-USE HEAVY-DUTY DIESEL-FUELED VEHICLES

The conditions on this Authority to Construct reflect some, but not all, of the requirements of these rules. Because other rule requirements may apply to the operation, the permit holder should be familiar with all of the rules and related requirements. In addition, because future changes in prohibitory rules may establish more stringent requirements that may supersede the conditions listed here, the permit holder should monitor proposed rules and rule adoption actions at SMAQMD.

For further information please consult your SMAQMD rulebook or contact the SMAQMD for assistance.