

YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT
 1947 Galileo Court, Suite 103; Davis, CA 95618
 Phone (530) 757-3650 Fax (530) 757-3670

FACILITY NUMBER: 00025
SIC CODE: 8221

**AUTHORITY TO CONSTRUCT
 C-10-38
 IS HEREBY GRANTED TO**

UNIVERSITY OF CALIFORNIA, DAVIS
Office of Environmental Health & Safety
One Shields Avenue
Davis, CA 95616

EQUIPMENT LOCATION: Robbins Hall, Campus Zone B040, CAAN 3237; Davis, CA

TO CONSTRUCT

PROCESS DESCRIPTION: Internal combustion (IC) engine powering an emergency generator

EQUIPMENT INVENTORY: 97.5 BHP natural gas fired Ford IC Engine, Model No. WSG-1068, Serial No. TBD, Model Year 2010

- Total Billing: Schedule 7, 97.5 BHP -

CONTROL EQUIPMENT INVENTORY:

Catalytic convertor

PERMITTED EMISSION LIMITS:

Pollutant	Daily [lb]	Qtr #1 (Jan 1-Mar 31) [lb]	Qtr #2 (Apr 1-June 30) [lb]	Qtr #3 (July 1-Sept 30) [lb]	Qtr #4 (Oct 1-Dec 31) [lb]	Yearly [tons]
VOC	0.2	2	2	2	2	Neg.
CO	5.2	43	43	43	43	0.02
NO _x	0.7	6	6	6	6	Neg.
SO _x	0.3	2	2	2	2	Neg.
PM ₁₀	0.2	2	2	2	2	Neg.

PERMITTED PROCESS LIMITS:

	Daily [cubic feet]	Qtr #1 (Jan 1-Mar 31) [million cubic feet]	Qtr #2 (Apr 1-June 30) [million cubic feet]	Qtr #3 (July 1-Sept 30) [million cubic feet]	Qtr #4 (Oct 1-Dec 31) [million cubic feet]	Yearly [million cubic feet]
Natural Gas	20,664	0.172	0.172	0.172	0.172	0.172

The following information is included to inform and assist the Permit Holder in achieving compliance with applicable provisions of Federal, State, and District Rules and Regulations. The following set of referenced regulations are not intended to be either comprehensive or exclusive, nor are they intended to be emission limiting permit conditions, but they are still applicable rules of the District. Occasionally laws are amended. The amended versions of the referenced rules shall be deemed to be in effect. **It is the Permit Holder's responsibility to comply with all applicable Rules and Regulations.**

1. After construction of all listed process and control equipment is complete, as determined by the District, the ATC Holder shall have 45 calendar days to conduct tests and perform other necessary initial adjustments on the equipment. During this time, this Authority to Construct and its conditions shall function as a temporary Permit to Operate. Any operation of the equipment beyond this period without either District receipt of a valid Permit to Operate Notification Card or written extension from the District, will be considered operation without a permit and subject to enforcement action. The ATC Holder shall provide the District, in writing, a notice prior to commencing the 45-day start-up period. [District Rule 3.1, §402]
2. The District requires an inspection of the equipment after completion of the construction and prior to the issuance of the Permit to Operate. [District Rule 3.1, §402]
3. An authorization to construct shall remain in effect only until the application for Permit to Operate is granted or denied; however, such an authorization shall not remain in effect beyond two years from the date of issuance unless the District finds that the time required for construction requires an extension and grants one or more extensions, for a total time not to exceed five years from the date of issuance. [District Rule 3.1, §407]

The following set of conditions are established by the District to provide enforceable operating parameters as authorized by California Health and Safety Code Section 42301 and District Rule 3.1, Section 402. If any of the rules and regulations referenced below are amended subsequent to the issuance date of this permit, resulting in the amended rule differing from or superseding the corresponding condition, then the Permit Holder shall be required to comply with the amended rule or regulation and shall no longer be required to comply with the superseded condition.

4. The Permit Holder shall not discharge into the atmosphere any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is:

- a. As dark or darker in shade than No. 1 on the Ringelmann Chart; or
 - b. Greater than 20% opacity. [District Rule 2.3, §301]
5. The IC engine shall be fired only on Public Utility Commission (PUC) grade pipeline natural gas. [District Rule 2.3, §301]
 6. The Permit Holder shall not operate the IC engine more than 50 hours per calendar year for maintenance and testing purposes, and such operation shall be scheduled in cooperation with the District so as to limit air quality impact. [District Rule 3.4, §110.1 and 40 CFR Part 60.4243]
 7. The Permit Holder shall not operate the IC engine more than 200 hours per calendar year. [District Rule 3.4, §110.2]
 8. The Permit Holder shall not operate this IC engine for the supplying of power to a serving utility for distribution on the grid. [District Rule 3.4, §110.3]
 9. The Permit Holder's operation of this IC engine for reasons other than maintenance purposes shall be limited to actual interruptions of electrical power by the serving utility. [District Rule 3.4, §110.4]
 10. The Permit Holder shall operate and maintain the engine and control device according to the manufacturer's emission related instructions or alternate procedures approved by the District. [District Rule 3.4 and 40 CFR Part 60.4234 and 60.4243]
 11. The Permit Holder shall maintain the following records:
 - a. All maintenance conducted on the engine; and
 - b. Documentation from the engine manufacturer the engine is certified to meet the emission standards. [District Rule 3.4 and 40 CFR Part 60.4235]
 12. The Permit Holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart JJJJ. [40 CFR Part 60, Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ]
 13. The Permit Holder shall maintain a log of the operation hours for this IC engine identifying the type of usage (either maintenance or emergency), the duration and date of each usage.
 14. All required records shall be retained for a period of five (5) years and be made available to District personnel upon request. [District Rule 3.4, §501 and 3.8, §302]

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health & Safety Codes of the State of California or the Rules and Regulations of the Yolo-Solano Air Quality Management District.

Mat Ehrhardt, P.E.
AIR POLLUTION CONTROL OFFICER

By: _____

Date of Issuance: _____