



**Santa Clara  
University**

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## Emergency Generator Program

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# EMERGENCY GENERATOR PROGRAM

## REFERENCES

- BAAQMD – Obtaining a Permit to Operate an Internal Combustion Engine
- 17 CCR 93115 – Standards for Diesel-Fired IC Engines
- 40 CFR, Sub Part III – Standards for Performance for Stationary Compression Ignition Internal Combustion Engines
- Attachment 1: Generator Logs

## PURPOSE

The purpose of this program is to ensure that SCU is in compliance with Bay Area Air Quality Management District (BAAQMD) and California Air Resources Board (CARB) regulations related to emergency generators, including all requirements related to recordkeeping.

## APPLICABILITY

This program covers the minimum requirements for the BAAQMD air quality licensing, operation, and recordkeeping related to the operation of emergency power generators located at the SCU campus.

It is not the purpose of this program to specify all the details contained in the BAAQMD air quality permits or BAAQMD or CARB regulations.

## DEFINITIONS

- **BAAQMD:** Bay Area Air Quality Management District
- **CARB:** California Air Resources Board
- **Emergency Standby Engine:** a stationary engine that meets the criteria specified in (A) and (B) and any combination of (C) or (D) or (E) below:
  - A. is installed for the primary purpose of providing electrical power or mechanical work during an emergency use and is not the source of primary power at the facility; and
  - B. is operated to provide electrical power or mechanical work during an emergency use; and
  - C. is operated under limited circumstances for maintenance and testing, emissions testing, or initial start-up testing, as specified in 17 CCR 93115.6(a), (b), and (c); or
  - D. is operated under limited circumstances in response to an impending outage, as specified in 17 CCR 93115.6(a), (b), and (c); or

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- E. is operated under limited circumstances under a Demand Response Program (DRP) as specified in 17 CCR 93115.6(c).
- **Emergency Use:** providing electrical power or mechanical work during any of the following events and subject to the following conditions in which the failure or loss of all or part of normal electrical power service or normal natural gas supply to the facility:
  - A. which is caused by any reason other than the enforcement of a contractual obligation the owner or operator has with a third party or any other party; and
  - B. which is demonstrated by the owner or operator to the district Air Pollution Control Officer's satisfaction to have been beyond the reasonable control of the owner or operator;
- **SCU:** Santa Clara University

## DESIGN REQUIREMENTS

### ***Requirements for all Generators***

1. All generators must have run that show the hours of operation for maintenance, test, and emergency use
  - a. Monthly inspection logs shall be turned into EHS by the 15<sup>th</sup> of each month
  - b. The logs must be kept in the form and format described in Attachment 1
2. All generators must have Fueling Logs and Fueling Files that show the source, type, and amount of fuel added to each generator
3. All generators shall have Maintenance Files that show that each generator has been serviced in accordance with the manufacturer's recommendations

### ***Fuel Characteristics***

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All generators are limited to 15 ppm sulfur content (ultra low sulfur diesel). Either off-road (red) diesel or on road diesel meeting the sulfur requirements can be used.

## ***Generator Run Limits***

1. The following generators are limited to 50 hours per year of maintenance and test by the BAAQMD:
  - a. S-2: North Parking Garage
  - b. S-17: Jesuit Residence
  - c. S-18: Graham Hall
  - d. S-19: Campisi Hal
  - e. S-21: Bookstore
  - f. S-22: Stevens Stadium
  - g. S-23: Swig Hall
  - h. S-24: University Villas
  - i. S-25: Mobile generator stored at University Operations
  - j. S-40: Vari Hall
2. The following emergency generators are exempt from a BAAQMD due to engine horsepower (<50HP)
  - a. Locatelli Student Center
  - b. Mayer Theater
  - c. Softball Field
3. All other emergency generators not specified are limited to 20 hours per year of maintenance and test per the BAAQMD

## REPORTING

1. Monthly inspection logs shall be turned into EHS by the 15<sup>th</sup> of each month
2. EHS representative will maintain a running monthly log of each emergency generator run time and report to the EHS Manager and/or EHS Director of any abnormalities

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## DOCUMENT RETENTION

The following documents shall be retained at these locations for three years:

<b>Document</b>	<b>Location</b>	<b>Responsible Party</b>
BAAQMD Permits	EHS Binder and Server	EHS Department
Bi-Annual Reports to BAAQMD	EHS Binder and Server	EHS Department
BAAQMD Monthly Inspection Logs	EHS Binder	EHS Department
Generator Maintenance	Utilities Workstations	Utilities Department
Training Records	EHS Server	EHS Department

## ROLES AND RESPONSIBILITIES

The following are the SCU Roles and Responsibilities for Emergency Generators:

### Utilities

- Ensures the Utilities Staff maintains the generator run logs, maintenance files and fuel delivery logs
- Maintains all emergency generators according to manufacturer's requirements.
- Informs EHS if any emergency generator is likely to run for more than 24 hours for emergency purposes

### EHS

- Informs the Utilities Team if any emergency generator is approaching their permitted limits
- Maintains current and two previous permits with the BAAQMD
- Reports all BAAQMD violations
- Submits bi-annual permit renewal with the BAAQMD

# EMERGENCY GENERATOR PROGRAM

## PROGRAM REVIEW RECORD

Name	Title	Department
Jeff Charles	Director	Facilities
Chris Young	Assistance Director	Facilities
Ralph Fitzsimons	Mechanic	Building Maintenance
Rick Grieb	Electrician	Building Maintenance
Carl Vierra	Electrician	Building Maintenance

## REVISION HISTORY

Number	Date	Responsible Person	Summary of Changes
1	09/03/2019	Dave Mathe	Update format and generator locations
New	05/19/2010	Joe Sugg	New

## PROGRAM APPROVAL RECORD

Signature of file in the EHS Office	
Signature	Date:
Sean P. Collins Director - Environment, Health and Safety	09/03/2019