

Environmental Standard Operating Procedure			
Originating Office:  <b>Environmental Management Department</b>	Revision:  Original	Prepared By:  Engineering Division	Approved By:  William Moog
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## Title: Emergency Generators

### 1.0 PURPOSE

The purpose of this Standard Operating Procedure is to provide environmental guidelines for emergency generators.

### 2.0 APPLICATION

This guidance applies to those individuals working with emergency generators aboard MCAS Miramar.

### 3.0 REFERENCES

- San Diego Air pollution Control District (SDAPCD) Rules and Regulation
- Air Quality Management Plan (AQMP)

### 4.0 PROCEDURE

#### 4.1 Discussion:

State and federal legislation, as well as Marine Corps Orders regulate the discharge of substances into the air. Emergency generators aboard MCAS Miramar shall at all times be operated and maintained in accordance with applicable Federal, state, and local regulations and permits.

#### 4.2 Operational Controls:

Public Works Division (PWD) shall provide Environmental Management Department (EMD) with timely notification of the proposed installation of any new emergency generators. PWD shall ensure that the contractor installing the generator(s) has obtained a permit to operate (PTO) and particulate matter (PM10) air toxic control measures are applied when required, prior to installation of the generator(s). Generally, all diesel/biodiesel fueled generators 50 bhp and above are required to meet new strict PM emissions standards (0.15 g/bhp-hr) for portable compression ignition (CI) engines and (0.01 g/bhp-hr) for stationary engines. Control devices are required (if engines do not meet this). Stationary generator particulate control devices may be necessary regardless of the engines installed.

The following procedures apply:

1. The manufacturer, model/serial numbers, and rated horsepower of the generator's Internal Combustion Engine (ICE) must match those specified on the PTOs.
2. The PTO shall be posted on-site.
3. The fuel system shall be free of any leaks. The Spill Prevention Control & Countermeasures contains specific procedures for management of petroleum, oil, and lubricants aboard MCAS Miramar, including fueling operations for emergency generators.)
4. The generator emissions opacity shall be less than 20% (i.e., one can see clearly through the engine exhaust).
5. An operation log shall be kept on-site, containing the "Hour Meter" reading at the beginning and end of each operation, maintenance/repair, and the amount fuel used/delivered monthly. The log shall be kept current and maintained on-site for a minimum of three (3) years.
6. As of January 2005 no person shall purchase, sell, or lease for use in California a new diesel fueled internal combustion engine (ICE) rated at 50 or more bhp.
7. MCAS Miramar ICE's shall be operated no more than allowed annually per PTO for test and maintenance purposes. This does not include for emission testing or emergency operation for which the equipment is permitted.
8. PWD shall provide EMD with timely notification of the proposed installation of any new emergency generators. EMD shall ensure that the contractor installing the generator(s) has obtained a PTO prior to installation of the generator(s).
9. Turnover folder information must be kept for this Standard Operating Procedure.
10. If there are any specific situations or other concerns not addressed by this procedure, contact EMD Office.

#### **4.3 Documentation and Record Keeping:**

The following records must be maintained for emergency generator management:

1. Permit.
2. Log of total hours of operation.
3. Log of all repairs, replacements and maintenance.
4. Log of each diesel fuel delivery.
5. Monthly fuel usage.

- 6. Inspection and training records.

**4.4 Training:**

All affected personnel must be trained in this Standard Operating Procedure. EMD shall ensure that its personnel and contractors are properly trained regarding logbook entries.

- 1. Hazard Communication training.
- 2. General Environmental Awareness training.

**4.5 Emergency Response Procedures:**

**CALL 9-1-1**

**4.6 Inspection and Corrective Action:**

PWD or its contractors shall perform weekly preventive maintenance inspections on all generators aboard the MCAS Miramar. PWD or its contractors shall maintain a separate logbook for each generator in accordance with guidance provided by EMD.

Emergency Generator- Inspection Checklist	
Date:	Time:
Installation:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
1. Is the Permit to Operate (PTO) posted on site? (AQMP)			
2. Is the manufacturer, model/serial numbers, and rated horsepower of the generator's ICE the same as that specified on the PTO? (AQMP)			
3. Is the fuel system free of any leaks?			

4. Is the generator emissions opacity less than 20% (i.e., one can see through the smoke of the engine exhaust)? (AQMP)			
5. Is an operation log maintained on-site, containing the "Hour Meter" reading at the beginning and end of each operation?			
6. Does the log specify the total hours operated? (AQMP)			
7. Does the log list all repairs, replacement, and maintenance? (AQMP)			
8. Does the log specify the amount of the fuel used/delivered monthly? (AQMP)			
9. Is the log kept current and maintained on-site for a minimum of 3 years? (AQMP)			
10. Is the equipment operated no more than allowed in PTO for test purposes and for an emergency?			
11. Are training and inspection records maintained and available for inspection?			

**ADDITIONAL COMMENTS:**

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**CORRECTIVE ACTION TAKEN:**

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**Environmental Compliance Coordinator**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_