

Environmental Standard Operating Procedure			
Originating Office: <b>MCAS Yuma Environmental Department</b>	Revision: Draft Supersedes:	Prepared By: Bill Shepherd/Marie Stewart	Approved By: Christian Kost
File Name: EMG-ESOP	Effective Date: 23 January 2006	Document Owner: Christian Kost	

## 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.

### 3.0 REFERENCES

- 40 CFR 70
- Arizona Department of Environmental Quality (ADEQ) Rules
- MCAS Yuma Standard Order 6280.11, Subject: Air Quality Management Plan

### 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 Yuma shall at all times be operated and maintained in accordance with applicable Federal, state, and local regulations and permits.

#### 4.2 Operational Controls:

I&L shall provide the Environmental Department with timely notification of the proposed installation of any new emergency generators. I&L shall ensure that the contractor installing the generator(s) has obtained a permit to operate (PTO) and particulate matter (PM<sub>10</sub>) 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. ( MCAS's *Integrated Contingency Spill Plan* contains specific procedures for management of petroleum, oil, and lubricants aboard MCAS Yuma, 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 day, the total hours operated daily, maintenance/repair, and the amount fuel used/delivered monthly. The log shall be kept current and maintained on-site for a minimum of two years.
6. MCAS ICE's shall be operated no more than 1 hour/month for test purposes. This does not include for emission testing or emergency operation for which the equipment is permitted.
7. No owner or operator shall operate existing (prior to 2005) emergency generators 50 bhp or greater, for more than 20 hours per year for maintenance and testing purposes. Waivers may be approve more than 30 hours per year for maintenance and testing purposes under site-specific circumstances. Contact the Environmental Department.
8. I&L shall provide The Environmental department with timely notification of the proposed installation of any new emergency generators. I&L shall ensure that 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 the Environmental Department.

#### **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, per day.
3. Log of all repairs, replacements and maintenance.
4. Log of each diesel fuel delivery.
5. Monthly fuel usage.
6. Weekly Inspection Sheets.
7. Inspection and training records.

#### **4.4 Training:**

All affected personnel must be trained in this Standard Operating Procedure. FMD 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 Preparedness and Response Procedures:**

Refer to MCAS Station Order 6280.5G, Subject: Integrated Contingency and Operations Plans (ICOP) for Marine Corps Air station

**4.6 Inspection and Corrective Action:**

FMD or its contractors shall perform weekly preventive maintenance inspections on all generators aboard the Combat Center. FMD or its contractors shall maintain a separate logbook for each generator in accordance with guidance provided by the Environmental department.

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? (MDAQMD 206)			
2. Are the manufacturer, model/serial numbers, and rated horsepower of the generator's ICE the same as that specified on the PTO? (MDAQMD 222(D)(2)(a)(i))			
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)? (MDAQMD 401(b))			
5. Is an operation log maintained on-site, containing the "Hour Meter" reading at the beginning and end of each day?			
6. Does the log specify the total hours operated daily? (CAR 17\3\I\7.5\93115(e)(4)(I)(1), MDAQMD 1160(E)(2)(b))			
7. Does the log list all repairs, replacement, and maintenance? (MDAQMD 222(D)(5)(a)(iv))			
8. Does the log specify the amount of the fuel used/delivered monthly? (CAR 17\3\I\7.5\93115(e)(4)(I)(1), MDAQMD 1157(E)(2)(a))			
9. Is the log kept current and maintained on-site for a minimum of 2 years? (MDAQMD 1157(E)(2)(e) and 1160(E)(2)(e))			
10. Is the equipment operated no more than 1 hours/month 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**

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

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