

Environmental Standard Operating Procedure			
Originating Office: <b>MCAS Miramar Environment Management Department</b>	Revision:  Original	Prepared By:  Environmental Management Department	Approved By:  William Moog
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## Title: Fuel Dumping

### 1.0 PURPOSE

The purpose of this Environmental Standard Operating Procedure (ESOP) is to provide environmental guidelines for managing hazardous materials and hazardous waste (HW) generated by aviation fuel dumping operations.

### 2.0 APPLICATION

This guidance applies to those individuals who perform aviation fuel dumping operations onboard Marine Corps Air Station (MCAS) Miramar.

### 3.0 REFERENCES

- 29 CFR 1910 (Code of Federal Regulations)
- 40 CFR 262
- MCO P5090.2A
- Squadron Orders (aircraft specific)
- NATOPS (Naval Aviation Tactical Operations)
- NAVAIR 4790 (Navy Air Force Fueling and Refueling Operations)

### 4.0 PROCEDURE

#### 4.1 Discussion:

Excess aircraft fuels must occasionally be dumped as a safety precaution to facilitate emergency landings during in-flight emergencies. However, aircraft fuel is a hazardous material that has the potential to impact human health and the environment. Therefore, when dumping fuel is necessary, federal regulations that require that the fuel be dumped at least 6,000 above ground elevation must be followed.

To calculate the correct dumping altitude one must consider the elevation above mean sea level (MSL) being flown over. If the elevation of the ground is 1,000 feet above MSL, then the fuel must be dumped at an elevation of at least 7,000 feet above MSL. This allows the fuel to evaporate and atomize before it reaches the ground or surface water.

#### **4.2 Operational Controls:**

The following procedures apply:

1. Ensure that Material Data Safety Sheets (MSDS) for aviation fuels (JP-5, JP-8, etc.) are available and current.
2. Ensure that training records for all personnel are current and available for inspection.
3. Ensure that adequate elevation above ground level has been achieved before dumping operations are performed.
  - 6,000 feet above ground level
4. If there are any specific situations or other concerns not addressed by this procedure, contact the Environmental Management Department at (858) 577-1108.

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

The following records must be maintained:

1. MSDSs for all aircraft fuels used at MCAS Miramar.
2. Training records and certifications for all personnel.
3. Fuel dumping activity report (verbally report to EMD within 24 hours; follow up with a written report to EMD within 5 days).
4. Fuel dumping log.

#### **4.4 Training:**

All applicable personnel must be trained in this ESOP and the following:

1. Hazard Communication training.
2. Hazardous Waste Operations Emergency Response (HAZWOPER) training (initial and annual).
3. NATOPS (Naval Aviation Tactical Operations).
4. NAVAIR 4790 training.
5. On the job (OJT) training.
6. Aircraft-specific SOP training.

**4.5 Emergency Preparedness and Response Procedures:**

Refer to Marine Corps Order (MCO) P5090.2A, Subject: Oil/Hazardous Substance Spills (OHSS) and Spill Prevention Containment & Countermeasures (SPCC) for MCAS Miramar.

**4.6 Inspection and Corrective Action:**

The Environmental Compliance Coordinator (ECC) shall designate personnel to perform inspections. The ECC shall ensure deficiencies noted during the inspections are corrected immediately. Actions taken to correct each deficiency shall be recorded on the inspection sheet.

Fuel Dumping Operations – Inspection Checklist	
Date:	Time:
Installation:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
1. Are MSDSs for aviation fuels available and current? <i>(29 CFR 1910)</i>			
2. Are training records and certifications maintained and available for inspection? <i>(MCO P5090.2A 9104.1(k)(5)- inspection only)</i>			
3. Has adequate elevation above ground level been achieved before dumping operations are performed? <i>(NATOPS, 40 CFR</i>			

**ADDITIONAL COMMENTS:**

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**CORRECTIVE ACTION TAKEN:**

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**Environmental Compliance Coordinator**

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

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

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