

Environmental Standard Operating Procedure			
Originating Office: <b>MCAS Miramar Environmental Management Department</b>	Revision:  Original	Prepared By:  Environmental Management Department	Approved By:  William Moog
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## Title: Flare and Smoke Usage

### 1.0 PURPOSE

The purpose of this Environmental Standard Operating Procedure (ESOP) is to provide environmental guidelines for performing flare and smoke usage (FSU) activities.

### 2.0 APPLICATION

This guidance applies to those individuals who perform flare and smoke activities onboard Marine Corps Air Station (MCAS) Miramar.

### 3.0 REFERENCES

- 29 CFR 1910
- 22 CCR (California Code of Regulations)
- MCO P4790.2C
- MCO P5090.2A (USMC Environmental Compliance and Protection Manual)
- MCO 8600
- Station Order 8600
- NAVAIR 11-140-7-1
- Loading Checklist 01-230HMA-75-22

### 4.0 PROCEDURE

#### 4.1 Discussion:

Daily operations aboard MCAS Miramar require loading flares (countermeasures) into aircraft systems, breaking down spent casings, and storing spent casings at (Marine Aviation Logistics Squadron) MALS 16. Flares are a classified material because they are a safety hazard, therefore, must be managed properly to avoid impacts to human health and the environment. The aluminum casings are classified as a universal waste and recycled after use. All universal wastes must be stored in approved containers. Units are equipped with approved containers and should contact the Environmental Management Department (EMD) for replacement of or to request additional containers.

## **4.2 Operational Controls:**

The following procedures apply:

1. Maintain loading checklist and manuals in locations known to all personnel.
2. Maintain required current training records and certifications for all personnel.
3. Maintain turnover folder information for this practice.
4. Wear appropriate protective personal equipment (PPE) including goggles, cranials, coveralls, and steel-toed boots as applicable.
5. Maintain fire extinguishers nearby in designated locations known to all personnel.
6. Conduct periodic maintenance in aircraft systems as needed or as specified in Technical manual/instructions.
7. Limit in flight operational use of flares to authorized ranges, minimum altitude and time of year for the type of flare munitions being used.
8. Collect aluminum casings and store in approved containers.
9. Ensure aluminum casings are crushed using manual press.
10. Maintain a daily log book containing dates and times of training operation, total FSU expended during training operations, etc.
11. Use only collection containers equipped with covers for the collection and transfer of wastes and recyclable materials such as casings.
12. Identify drum and/or container with a universal waste label. Check the appropriate universal waste contents block identifying the contents and accumulation start date.
13. Keep collection containers closed except when material is added to the container.
14. Contact EMD if a new collection container is required.
15. Ensure that all inspection records are maintained and available for review for three years.
16. Ensure that warning signs such as "No Smoking" and "No Radios" are clearly visible and legible from a distance of 100 feet in any direction.
17. If there are any specific situations or other concerns not addressed by this procedure, contact the EMD.

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

The following records must be maintained:

1. Training records and certifications for personnel.
2. Operation manuals and checklists.
3. Maintenance records.
4. Shipment records from suppliers (MALS 16, Station Weapons).
5. Daily log book.
6. Inspection records.

#### **4.4 Training:**

All personnel must be trained in this ESOP, to include the following, as applicable:

1. 40-hour Hazardous Waste Operations and Emergency Response Training (initial and annual).
2. Hazard Communication training.
3. 24-hour Hazardous Materials training.
4. A-School.
5. C-School.
6. On-the-job 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 perform or 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.

Flare and Smoke Usage – Inspection Checklist

Date:	Time:
Installation:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
1. Are loading checklists and manuals maintained in locations known to all personnel? <i>(MCO P5090.2A, NAVAIR 11-140-7-1)</i>			
2. Are required current training records and certifications maintained for all personnel? <i>(MCO P5090.2A)</i>			
3. Is turnover folder information maintained for this Practice? <i>(MCO P4790.2C)</i>			
4. Is appropriate personal protective equipment (PPE) worn as needed? <i>(29 CFR 1910)</i>			
5. Are fire extinguishers kept nearby in known locations? <i>(29 CFR 1910)</i>			
6. Is periodic maintenance conducted as needed or as specified in Tech. manual/instructions? <i>(MCO P5090.2A, NAVAIR 11-140-7-1)</i>			
7. Is in flight operational use of flares limited to authorized ranges, minimum altitude and time of year for the type of flare munitions being used? <i>(MCO P5090.2A)</i>			
8. Are aluminum casings collected and stored in approved containers? <i>(40 CFR 262, MCO P5090.2A)</i>			
9. Are aluminum casings crushed using manual press? <i>(MCO P5090.2A)</i>			
10. Is a daily log book maintained with dates and times of training operations, total FSU expended during training, etc.? <i>(MCO P5090.2A)</i>			
11. Are collection containers equipped with lids? <i>(40 CFR 262, MCO P5090.2A)</i>			
12. Are drums and containers identified with a universal waste label checked appropriately including accumulation start date? <i>(40 CFR 262, MCO P5090.2A)</i>			
13. Are containers kept closed except when material is added to the container? <i>(40 CFR 262, MCO P5090.2A)</i>			
14. Is EMD contacted when a new container is required? <i>(MCO P5090.2A)</i>			

15. Are all inspection records maintained and available for review for three years? (MCO P5090.2A)			
16. Are warning signs clearly visible and legible from a distance of 100 feet in any direction? (CCR 265.17(a) HWMP Sec:3.2.2A)			

**ADDITIONAL COMMENTS:**

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**CORRECTIVE ACTION TAKEN:**

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**Environmental Compliance Coordinator**

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

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

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