

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: Aircraft Rescue and Fire Fighting Operations

### 1.0 PURPOSE

The purpose of this Environmental Standard Operating Procedure (ESOP) is to provide environmental guidelines for conducting aircraft rescue and fire fighting (ARFF) operations at Marine Corps Air Station (MCAS) Miramar.

### 2.0 APPLICATION

This guidance applies to those individuals who perform ARFF operations.

### 3.0 REFERENCES

- 29 Code of Federal Regulations (CFR)
- 49 CFR
- 22 California Code of Regulations (CCR)
- IFSTA Manual
- NAVAIR 14R.1
- NAVAIR 00-80R-14
- NATOPS U.S. Navy Aircraft Fire Fighting and Rescue Manual
- NAVAIR 01-1A-17
- MCO P5090.2A (USMC Environmental Compliance and Protection Manual): Subject: OHSS and SPCC
- Hazardous Materials Standard Operating Procedures

### 4.0 PROCEDURE

#### 3.1 Discussion:

Aircraft rescue and firefighting operations are required in the event of a crash or hard landing. During these operations, hazardous materials (HM) may be used and hazardous wastes (HW) may be generated, including fuel or oil spills, and the use of hazardous materials such as Aqueous Film Forming Foam (AFFF) which is

required to effectively contain fires on the scene.

The handling, use, and storage of fuel, oil, and other hazardous materials must be properly managed to lessen the effects of environmental impacts associated with this practice. Units have been equipped with approved spill kits, transfer containers and drip pans. Units will contact the Materiel Unit for change out or repair of damaged, leaking or missing equipment.

### **3.2 Operational Controls:**

The following procedures apply:

1. Ensure that Material Data Safety Sheets (MSDSs) for fuels, oils, AFFF, Purple-K (PKP) dry chemical extinguishing agent, aerosol paints, silicone compounds and batteries are current and available for inspection.
2. Ensure that only approved transfer containers are used to store and transfer all collected or absorbed HW generated by emergency response operations.
3. Transport all collected or absorbed HW to a satellite or central HW accumulation yard.
4. Maintain stocked spill kits nearby in designated locations known to all unit personnel.
5. Ensure spilled material is identified and properly cleaned up in a timely manner.
6. Report spills immediately to the Environmental Management Department (EMD), using response sheet forms. EMD notifies all other agencies (base, state, federal, etc.).
7. Ensure that the daily log of all incidents is kept current and available for inspection.
8. Ensure fire extinguishers are kept nearby in known locations.
9. Use proper Personal Protective Equipment (PPE) including; latex gloves, face shields, safety glasses and steel toe boots.
10. If there are any specific situations or other concerns not addressed by this procedure, contact the EMD.

### **3.3 Documentation and Record Keeping:**

The following records must be maintained:

1. MSDS for fuels, oil, AFFF, Purple-K AFFF, Purple-K (PKP) dry chemical extinguishing agent, aerosol paints, silicone compounds and batteries are current and available for inspection.

2. Inspection and training records.
3. Response sheet daily log (maintain for 3 years).
4. Oil and Hazardous Substance Spill (OHSS) Contingency Plan.
5. Spill Prevention Control and Countermeasures (SPCC) Plan.
6. Reporting of all Reportable Quantity (RQ) Spills (including JP-5, JP-8, etc.).

### **3.4 Training:**

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

1. First Responder Operations (initial and annual refresher)
2. Firefighting I & II
3. Aircraft Firefighting
4. NAVAIR (Naval Air Force) 00-80R-14
5. Emergency Medical Technician (EMT) Certification
6. Crane Operator Training
7. California Specialized Training Institute (CSTI) Program
8. Hazard Communication (HazCom) Training, (initial and annual).
9. Hazardous Waste Operations and Emergency response (HazWOPER) Training (initial and annual).
10. HAZMAT Supervisor Training (Supervisor/Hazmat Coordinator only).

### **3.5 Emergency Preparedness and Response Procedures:**

Refer to:

1. OHSS Contingency Plan
2. SPCC Plan

3. Hazardous Materials Standard Operating Procedures
4. International Fire Service Training Association (IFSTA) Manual
5. NAVAIR 14R.1
6. NAVAIR 00-80R-14
7. NAVAIR 01-1A-17

Emergency response vehicles are required to coordinate with the control tower before entering the flight-line when responding to emergencies and spills. The ARFF unit responds to emergencies/spills on the flight-line. The MCAS Miramar Fire Department responds to emergencies that do not involve the flight-line.

Notify the EMD via the spill response sheet. EMD will notify all other appropriate agencies.

### 3.6 Inspection and Corrective Action:

The Environmental Compliance Coordinator (ECC) shall designate personnel to perform site 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.

Aircraft Rescue and Firefighting – Inspection Checklist	
Date:	Time:
Installation:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
1. Are MSDSs for: <ul style="list-style-type: none"> <li>a. JP-5, JP-8 and all other fuels used aboard MCAS Miramar,</li> <li>b. oil,</li> <li>c. AFFF,</li> <li>d. PKP,</li> <li>e. Dry Chemical Extinguishing Agent,</li> </ul>			

<p>f. aerosol paints,</p> <p>g. silicone compounds and</p> <p>h. batteries current and available for inspection?</p> <p><i>(29 FR 1910, 40 CFR)</i></p>			
<p>2. Following incident responses are recovered hazardous wastes transported and stored in approved, closed, and properly labeled containers? <i>(29 CFR, 22 CCR, MCO P5090.2A)</i></p>			
<p>3. Are recovered hazardous materials transported to an approved HW (satellite or central) accumulation yard within the required timeframe? <i>(29 CFR 1910, 40 CFR, 22 CCR, MCO P5090.2A)</i></p>			
<p>4. Are fully stocked spill kits kept nearby in designated locations known to all unit personnel? <i>(29 CFR 1910, 40 CFR, 22 CCR, MCO P5090.2A)</i></p>			
<p>5. Are spills properly cleaned up in a timely manner by recovery teams (as soon as safely possible) once the spilled material is identified? <i>(29 CFR 1910, 40 CFR, 22 CCR, MCO P5090.2A)</i></p>			
<p>6. Are all spills immediately reported to the EMD, using spill response sheet forms? <i>(MCO P5090.2A)</i></p>			
<p>7. Are fire extinguishers kept nearby in known locations? <i>(29 CFR 1910, 40 CFR, MCO P5090.2A)</i></p>			
<p>8. Is appropriate PPE worn during emergency response and spill response operations? <i>(29 CFR, MCO P5090.2A)</i></p>			
<p>9. Is a daily log of all spills and incident responses kept current and available for inspection? <i>(MCO P5090.2A)</i></p>			

**ADDITIONAL COMMENTS:**

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**CORRECTIVE ACTION TAKEN:**

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**Environmental Compliance Coordinator**

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

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