

Environmental Standard Operating Procedure			
Originating Office: MCAS Miramar Environmental Management Department	Revision: Controlled Burn Operations	Prepared By: Environmental Management Department	Approved By: William Moog
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Title: Controlled Burn Operations:

1.0 PURPOSE

The purpose of this Environmental Standard Operating Procedure (ESOP) is to provide environmental guidelines for performing controlled burn operations.

2.0 APPLICATION

This guidance applies to those individuals who perform controlled burn operations onboard Marine Corps Air Station (MCAS) Miramar.

3.0 REFERENCES

- NEPA (National Environmental Protection Act)
- 29 CFR 1910 (Code of Federal Regulations)
- 22 CCR 265.17(a) (California Code of Regulations)
- MCO P4790.2C
- MCO P5090.2A (USMC Environmental Compliance and Protection Manual)
- SDAPCD Rule 101 (San Diego Air Pollution Control District)
- Wildland Fire Management Plan
- HWMP Sec:3.2.2A (Hazardous Waste Management Plan)
- OHSS/SPCC Oil/Hazardous Substance Spills and Spill Prevention Containment & Countermeasures Plan
- International Fire Service Training Association (IFSTA) Manual

4.0 PROCEDURE

4.1 Discussion:

Controlled burn operations require conducting prescribed burns within limited areas in order to control the spread of wild fires. Prescribed burn operations use hazardous materials, generate hazardous wastes and must therefore be properly managed in order to lessen impacts to human health and the environment.

All hazardous materials must be stored in approved containers. Units are equipped with approved containers and aboveground storage tanks (ASTs), as necessary. Units will contact the Environmental Management Department (EMD) for replacement of or to request additional containers.

4.2 Operational Controls:

The following procedures apply:

1. Ensure that Material Safety Data Sheets (MSDS) for gasoline, diesel, and all materials associated with this practice are current and available.
2. Conduct critical training and safety briefs.
3. Ensure that records of all required training and certifications are current and available for inspection.
4. Ensure turnover folder information is kept for this practice and available for inspection.
5. Wear appropriate protective personal equipment (PPE) including but not limited to eye protection, shroud (face and neck protection), 8" high lug sole boots, "hot shield" particulate filters, Nomex pants and jacket, gloves and web gear with fire shelter as applicable.
6. Ensure that all required permits are current and available for inspection.
7. Store all hazardous materials in the hazardous materials (HAZMAT) locker.
8. Use only the proper fuel mixture (1/3 gasoline, 2/3 diesel) in the drip torches.
9. Document weekly inspections of storage areas and maintain records for three years.
10. Perform equipment maintenance (e.g., Garrison Mobile Equipment (GME)) as recommended by manufacturer.
11. Ensure that the activity log of all incidents and field activities are kept current and available for inspection.
12. Place all used rags in flammable materials containers, and turn in full containers at the HAZMIN Center to obtain a replacement container.
13. Ensure that portable "Controlled Burn" warning signs are posted.
14. 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. MSDSs for all materials associated with this practice.
2. Training records and certifications for personnel.
3. Activity log containing dates and times of operation.
4. Incident reports.
5. Scheduled maintenance log book.
6. Required permits.
7. Hazardous Materials Standard Operating Procedure (SOP).

4.4 Training:

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

1. First Responder Operations (FRO) training.
2. National Wildfire Coordination Group (NWCG) training.
3. First Aid and Cardiopulmonary Resuscitation (CPR) training.
4. National Incident Management System (NIMS) training.
5. 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. The MCAS Miramar Fire Department responds to emergencies that do not involve the flight-line.

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.

Controlled Burn Operations – Inspection Checklist

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

Inspection Items	Yes	No	Comments
1. Are MSDSs for gasoline, diesel, and all materials associated with this practice available and current? <i>(29 CFR 1910)</i>			
2. Are critical training and safety briefs conducted? <i>(MCO P5090.2A)</i>			
3. Are records of all required training and certifications current and available for inspection? <i>(MCO P5090.2A, Wildland Fire Management Plan)</i>			
4. Is appropriate PPE worn when needed? <i>(29 CFR 1910)</i>			
5. Is turnover folder for this practice available for inspection? <i>(MCO P4790.2C)</i>			
6. Are all required permits current and available for inspection? <i>(NEPA, MCO P5090.2A)</i>			
7. Is fuel mixed according to specifications (1/3 gasoline, 2/3 diesel) for use in the drip torches? <i>(Wildland Fire Management Plan)</i>			
8. Are weekly inspections of storage areas documented? <i>(29 CFR 1910, MCO P5090.2A)</i>			
9. Are all usable hazardous materials (stored in the hazardous materials (HAZMAT) locker? <i>(29 CFR 1910, MCO P5090.2A)</i>			
10. Is the activity log of all incidents and field activities kept current and available for inspection? <i>(MCO P5090.2A)</i>			
11. Are all used rags placed in flammable materials containers, full containers turned in at the HAZMIN center? <i>(MCO P5090.2A)</i>			
12. Is "Controlled Burn" warning signs clearly visible and legible from a distance of 25 feet in any direction? <i>(CCR 265.17(a), HWMP Sec:3.2.2A)</i>			

ADDITIONAL COMMENTS:

CORRECTIVE ACTION TAKEN:

Environmental Compliance Coordinator

Name: _____

Signature: _____

Date: _____