

Environmental Standard Operating Procedure	
Engine Operation and Maintenance	
SF Director: Alicia Florez Signature:	Date:

PURPOSE.

This Environmental Standard Operating Procedure (ESOP) identifies responsibilities and requirements for engine operation and maintenance for non-emergency generators at Marine Corps Logistics Base, Barstow

PROCEDURES.

In the course of supporting the training mission, personnel must operate or maintain various internal combustion engines aboard the installation. These operations have the potential to impact air, water, and soil quality, as well as natural and cultural resources and wildlife management areas. Engine operation and maintenance has the potential to result in a hazardous substance spill that could overwhelm or bypass Oil/Water Separator (OWS), impact surface waters, and impact soil and/or groundwater. MCLB Barstow is home to a large variety of sensitive and endangered plants and, animals as well as natural and cultural resources. Strict adherence to signs and guidance is required when operating engines. Engine operations and maintenance require the use and storage of petroleum, oils, lubricant (POL), antifreeze and other hazardous materials that must be properly handled to lessen impacts to human health and the environment.

The following procedures apply:

1. Ensure that records of all required training and certifications are current and available for inspection.
2. Use the appropriate personal protective equipment (PPE).
3. Conduct and document regular inspections of all engines and check for signs of leaks.
4. Conduct and document regular maintenance on all engines according to manufacturer’s specifications.
5. Maintain fully stocked spill kits nearby engine maintenance areas in designated locations (which may be within equipment) and known to all unit personnel as applicable.
6. Store and transfer all petroleum, oils, lubricant (POL), antifreeze and other hazardous materials using secondary containment (e.g., containment liners)

7. Properly contain, clean up, and report any spills or leaks as soon as they occur to your immediate supervisor and follow procedures in the Spill Response ESOP. Ensure that a spill report is submitted to the Environmental Division as soon as possible, but no later than 24 hours of the spill. The report should contain details about the spill date, time, product spilled, quantity, location, cleanup actions taken, and name of the person reporting the spill.
8. Maintain fire extinguishers in known locations within equipment as applicable.
9. Properly dispose of all used hazardous material containers.
10. Place approved drip pans underneath engines when necessary to prevent drips or potential leaks as engines sit idle (not in use).
11. Do not idle engines for extended periods (5 minutes) without shutting down and restarting.
12. Do not operate engines at peak throttle for extended periods when not actively utilizing system for which it was designed.
13. Place used rags and waste from spill clean-up in approved containers.
14. The following records must be maintained for tire replacement operations management:
 - a. SDS for all fuels, oil, antifreeze, and any other material associated with this operation.
 - b. Training records and certifications for personnel.
 - c. Spill reports.
 - d. Inspection records.
15. The Environmental Compliance Coordinator (ECC) shall coordinate with their supervisor/leadership to ensure personnel are designated to conduct 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.
16. If there are any specific situations or concerns not addressed by this procedure, contact the MCLB Barstow Environmental Division.

REFERENCES.

- a. 29 CFR 1910 (Code of Federal Regulations)
- b. 40 CFR 262
- c. 40 CFR 112 (Oil Pollution Prevention)
- d. MCO 5090.2A (Marine Corps Order)

TRAINING.

Unit personnel should be trained on all the provisions of this ESOP. All training must be requested through unit ECC or Environmental Compliance Branch.

All affected personnel must be trained in the following:

- a. General Environmental Awareness training
- b. Hazard Communication (HazCom) training
- c. On the job (OJT) training