

Environmental Standard Operating Procedure			
Originating Office: Natural Resources and Environmental Affairs Office	Revision: 22 Sep 2014 Supersedes: 01 Oct 2013	Prepared By: NREA Subject Matter Expert (SME)	Approved By: Branch Head, P2
File Name: BRE-ESOP	Effective Date: 01 Oct 2014	Document Owner: NREA	

Title: Battery Recharging (Non Vehicle, Comm., Electric)

1.0 PURPOSE

The purpose of this Environmental Standard Operating Procedure is to provide environmental guidelines for the use of non-vehicle, communications and electric batteries.

2.0 APPLICATION

This guidance applies to those individuals working with non-vehicle, communications and electric batteries aboard Marine Corps Air Ground Combat Center (MCAGCC), Marine Air Ground Task Force Training Command (MAGTFTC) Twentynine Palms.

3.0 REFERENCES

- Code of Federal Regulations – Title 40, (40 CFR)
- Hazardous Waste Operations Manual, MCAGCC
Combat Center Order 5090.5C, Integrated Contingency and Operations Plans (ICOP) for MCAGCC.

4.0 PROCEDURE

4.1 Discussion:

Batteries may be hazardous to human health and the environment if not properly handled.

4.2 Operational Controls:

Most of all non-vehicle, communications and electric batteries aboard MCAGCC are considered maintenance free. A small percentage of the batteries are considered rechargeable. Regardless of type, all non-vehicle, communications and electric batteries aboard MCAGCC must be recycled. Used batteries are turned into the Hazardous Waste Management Section (HWMS) after being properly packaged for recycling.

The following procedures apply to unit level operators:

1. During charging operations, monitor voltage and heat generation from the charging battery; shut-down all charging when voltage exceeds required level or the battery is excessively hot.

2. Lithium batteries shall be stored in a dry secure well-ventilated area.
3. Lithium batteries must be double wrapped in plastic and taped then placed in a properly labeled poly container provided by the HWMS at the Satellite Accumulation Area (SAA) for pick-up by HWMS personnel.
4. Unit personnel shall not discharge lithium batteries.
5. Batteries shall be segregated by chemistry (i.e., Li, NiCd, etc.)
6. NiCad batteries should be stored in a secure, dry area away from flammables.
7. Nickel Cadmium batteries must be placed in a properly labeled poly container provided by the HWMS at the SAA for pick-up by HWMS personnel.
8. Alkaline batteries such as AA or D Cell and 9 Volt batteries must be placed in a properly labeled poly container provided by the HWMS at the SAA for pick-up by HWMS personnel.
9. Mercury batteries must be placed in a properly labeled poly container provided by the HWMS at the SAA for pick-up by HWMS personnel
10. Turnover folder information must be kept for this Environmental Standard Operating Procedure.
11. If there are any specific situations or other concerns not addressed by this procedure, contact MCAGCC Natural Resources and Environmental Affairs (NREA), Pollution Prevention (760-830-7695)

4.3 Documentation and Record Keeping:

The following records must be maintained:

1. MSDS/SDS for batteries.
2. Training and inspection records.

4.4 Training:

All affected personnel must be trained in this Standard Operating Procedure and the following:

1. Hazard Communication training.
2. General Environmental Awareness training

4.5 Emergency Preparedness and Response Procedures:

Combat Center Order 5090.5C, Integrated Contingency and Operations Plans (ICOP) for MCAGCC.

4.6 Inspection and Corrective Action:

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

Non-vehicle Battery – ECC/Inspection Checklist

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

Inspection Items	Yes	No	Comments
1. Is MSDS/SDS available for all batteries being used?			
2. Are lithium batteries properly stored in a dry secure area?			
3. Are used lithium batteries stored in the SAA in a properly labeled poly container?			
4. Is discharging of lithium batteries by personnel prohibited?			
5. Are nickel cadmium batteries properly stored in a dry secure area, away from flammables?			
6. Are used nickel cadmium batteries stored in the SAA in a properly labeled poly container?			
7. Are used alkaline batteries stored in the SAA in a properly labeled poly container?			
8. Are batteries segregated by chemistry?			
9. Are training records maintained and available for inspection?			

ADDITIONAL COMMENTS:

CORRECTIVE ACTION TAKEN:

Environmental Compliance Coordinator

Name: _____

Signature: _____

Date: _____