

Environmental Standard Operating Procedures (ESOP)	
Lithium Battery Storage (LIT)	
Environmental Affairs (EA): Hazardous Waste Management Branch (HWMB) (760) 830-7244	Revised: 12 July 2021

Subj: HAZARDOUS WASTE LITHIUM BATTERY STORAGE

Ref: (a) CCO 5090.5D, Integrated Contingency and Operations Plan
(b) Hazardous Waste Operations Manual, MCAGCC

1. Purpose. This document provides environmental protection guidelines for the proper storage of lithium batteries.

2. Application. This guidance applies to those personnel who are involved with handling, storing lithium batteries aboard Marine Air Ground Task Force Training Command (MAGTFTC), Marine Corps Air Ground Combat Center (MCAGCC) Twentynine Palms. For further references to MAGTFTC, MCAGCC in this document, the term installation will be used.

3. Procedures. The storage and handling of lithium batteries must be properly managed to ensure that uncontrolled release of toxic fumes, fire or explosion does not occur. Uncontrolled releases of toxic gas could result in serious danger to human health and the environment as well as the unnecessary creation of Hazardous Waste. To prevent uncontrolled releases of Hazardous Materials (HM), HM must be stored in such a way that will prevent inadvertent contact or mixing of dissimilar materials. HM must be segregated and stored in authorized containers or storage lockers that are compatible with the chemical properties of the materials. Units are responsible for the safe handling of mission essential HM, including the procurement of appropriate HM storage lockers.

4. Operational Controls. The following procedures apply for the storage of Lithium Batteries.

a. Ensure Safety Data Sheets are readily available and current for all types of Lithium batteries used or stored within the work site.

b. Ensure all applicable policies and procedures are implemented and adhered to within the storage site.

c. Ensure storage facilities are approved by the installation's Safety and Fire Department. Approval letters must be maintained by the command Safety Officer (or representatives).

d. Ensure lithium batteries are stored separate from any other hazardous material or types of batteries.

e. Battery storage facility temperature must be maintained below 130 Degrees Fahrenheit.

f. Thermometers will be placed within each battery storage facility or Area to monitor the temperature.

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g. Units shall inspect battery storage facilities and areas at least quarterly to assess their serviceability. Request repairs via a work request to the Public Works Division.

h. Signs shall be placed on all four sides of each battery storage facility or area. These signs shall prohibit open flames, eating, drinking and smoking,

i. Each battery storage facility or area will be conspicuously marked to warn emergency service personnel of lithium battery contents on all 4 sides of the storage area.

j. Lithium batteries should be inspected daily for evidence of leakage, excessive heat, or exposure to water. A written record shall be maintained of this task.

k. Lithium batteries will be stacked no more than three high and two inches apart.

l. Accurate inventory of all lithium batteries must be maintained and posted inside the storage facility. This list is to be updated as fluctuations in quantities occur.

5. Documentation and Record Keeping. The following records must be maintained:

- a. Safety Data Sheet's for all HM being stored.
- b. Inspection records must be maintained for 3 years.

6. Training. All affected personnel must be trained in this document and the following:

- a. General Environmental Awareness training.
- b. Most current version of reference (b).
- c. Globally Harmonized System training.

7. Emergency Preparedness and Response Procedures. Refer to reference (a).

8. Inspection and Corrective Action. The Environmental Compliance Coordinator (ECC) and HWMB shall designate personnel to perform operational and weekly inspections respectively. The Supervisor of HWMB has the overall responsibility to ensure that the mandated weekly inspection requirement are met. 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. Refer to reference (b), for inspection sheets and guidelines.

Hazardous Waste Lithium Battery Storage Inspection Checklist	
Date:	Time:
Unit:	Work Center:
Inspector's Name:	Signature:

Inspection Items	Yes	No	Comments
Administrative			
1. Are SDS's available for all lithium chemistry batteries being used or store?			
2. Have unit personnel received appropriate level of training?			
3. Are training records maintained and available for inspection?			
4. Are lithium batteries stored in a compatible manner IAW the manufacture's SDS and NAVOSH incompatible Material Chart?			
5. Are good house-Keeping practices being adhered to and employed within the lithium battery storage area?			
6. Is personnel protective equipment on hand and serviceable? (eye protection, chemical resistant gloves)			
7. Are all lithium batteries stored within shelf life?			
8. Is a compatible (Class "D") fire extinguishers available and functional?			
9. Are all spill kits on hand and serviceable?			
10. Are eyewash station on hand and serviceable and routinely inspected?			
11. Does the command possess a current Authorized user list (AUL)?			
12. Does the command updates the AUL as new materials are introduced into the workplace?			
13. Are Lithium Batteries inspected daily using this checklist for evidence of leakage, excessive heat, or exposure to water with a log book of the daily inspections maintain?			
14. Are new batteries stored separately from used batteries?			
15. Are batteries stored 3 high and 2 inches a part to permit air circulation and cooling?			
16. Is there a thermometer in the battery storage facility or area?			
17. Are lithium batteries kept away from direct sunlight or water to prevent exposure?			
18. Are Lithium Storage building and areas labeled "Lithium Batteries, No Eating, No Smoking, No Drinking, and No Open Flames"?			

and conspicuously marked (Lithium Batteries etc.) on all 4 sides of the facility, locker storage area etc.			
19. Are Lithium batteries stored separately from all other types or chemistries of batteries and hazardous materials?			
20. Is there an inventory of lithium batteries posted in all lithium battery storage areas and updated as inventories fluctuates or changes?			

Additional Comments:

Corrective Action Taken:

Unit Inspector:

Name: _____

Signature: _____