U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety Administration**

East Building, PHH – 32
1200 New Jersey Avenue, Southeast
Washington, D.C. 20590

APPROVAL CA2003030003
(Third Revision)
ISSUED BY THE COMPETENT AUTHORITY OF THE UNITED STATES
Expiration Date: March 31, 2014

1. **APPROVAL HOLDER:** Members of the Portable Rechargeable Battery Association (PRBA) Members as individual grantees on file with the Office of Hazardous Materials Special Permits and Approvals
Washington DC 20006

2. **REGULATORY AUTHORITY:**

   a. 49 CFR 173.185(f); 49 CFR 172.102, Special Provision A55; and

   b. International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI) Special Provision A88 and State Variation US 3

   *For shipments outside of the U.S., see paragraph 7.b of this Approval.

3. **SYNOPSIS:** Members of the Portable Rechargeable Battery Association (PRBA) are authorized to offer for transportation prototype lithium ion cells and batteries in accordance with the conditions of this approval.

4. **BASIS:** This approval is issued in response to Portable Rechargeable Battery Association (PRBA)'s application request for modifications and renewal dated April 8, 2008.

5. **PERIOD OF VALIDITY AND CONDITIONS OF APPROVAL:** This approval does not provide relief from any requirements of the Hazardous Materials Regulations, or the ICAO TI except as stated herein. This approval is valid until the posted expiration date above or unless terminated by the Associate Administrator for Hazardous Materials Safety.

a. Approved Materials: Only the following material(s) may be transported under the terms of this approval.

Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Number	PG
Lithium battery	9	UN3090	II
Lithium metal batteries	9	UN3090	II
Lithium ion batteries	9	UN3480	II

b. Safety Controls: Only prototype and low production lithium metal cells and batteries and lithium ion cells and batteries. ("Low production" is defined as a production run of no more than 100 cells or batteries annually of a particular design.)"

c. Testing:

(1) Cells and batteries must be subjected to the following test:

(i) Three cells or one battery must be stored at 55ºC for at least 48 hours followed by a short circuit test (connecting a conductor across the positive and negative terminals and maintaining this short circuit for at least one hour after the case temperature has returned to 55ºC); or

(ii) If batteries are comprised of cells that have passed all required tests as specified in the "UN Manual of Tests and Criteria", the short circuit test may be conducted at room temperature (approximately 23ºC).

(2) Cells and batteries are considered safe to transport under the terms of this Approval if the cells and batteries show no disassembly or fire.

d. Packaging:

(1) Cells and batteries must be individually packaged in inner packagings and surrounded by cushioning material that is non-combustible, and non-conductive. Cells and batteries must be protected against short circuiting;

(2) Cells and batteries must be further packaged in a metal outer packaging that meets Packing Group I performance criteria; and

(3) Cells and batteries per completed package must not exceed the following limitations:

(i) FOR LITHIUM ION CELLS AND BATTERIES

CELLS: < 5 g ELC (or 15 Ah) – No more than 24 per package
> 5 g ELC (or 15 Ah) – No more than 12 per package

BATTERIES: < 25 g (or 300 Wh) – No more than 12 per package
> 25 g (or 300 Wh) – No more than 6 per package

(ii) FOR LITHIUM METAL CELLS AND BATTERIES

CELLS: < 5 g – No more than 24 per package
> 5 g – No more than 12 per package

BATTERIES: < 25 g – No more than 12 per package
> 25 g – No more than 6 per package

e. Marking Requirements: Each package, and overpack if used, prepared under the provisions of this Approval must be plainly marked with the approval number: CA2003030003.

6. **MODES OF TRANSPORTATION AUTHORIZED:** Motor vehicle, cargo aircraft, rail car, and cargo vessel.

7. **SPECIAL PROVISIONS:**

a. A current copy of this approval must be maintained and made available for examination at each location where materials are packaged and offered for transportation under its authority, and a current copy of this Approval must be carried on board each motor vehicle, aircraft, and vessel used in transportation under its authority.

b. This Approval in no way affects the need to obtain any required authorizations from other agencies of the United States Government or from the competent authorities of countries of transit and destination.

c. PBRA must provide a current list of members by June 30 of each year and upon demand of the Associate Administrator for Hazardous materials Safety.

d. Any person who offers for transportation or transports the above-described package(s) may do so under the authority of this approval if all requirements and conditions of this approval are met.

e. Shipments or operations conducted under this Approval are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR 171.15 – Immediate notice of certain hazardous materials incidents, and 49 CFR 171.16 – Detailed hazardous

materials incident reports. In addition, the holder of this Approval must notify the Associate Administrator for Hazardous Materials Safety – OHMSPA, in writing, of any incident involving a package, shipment, or operation conducted under the terms of this Approval.

8. **GENERAL PROVISIONS:**

a. Failure by any person to comply with the terms and conditions of this approval and the Hazardous Materials Regulations, 49 CFR Parts 171-180 or the ICAO TI may result in the modification, suspension or termination of that person's authority to use this approval. Failure to comply may also subject that person to penalties prescribed by 49 U.S.C. §§ 5123 and 5124. This approval may be modified, suspended or terminated in its entirety if that action is justified in light of changes in circumstances or additional information not available when this approval was issued. Unless immediate modification, suspension or termination is necessary to avoid a risk of significant harm to persons or property, before action is taken, that person will be notified and provided with an opportunity to show why the proposed action should not be taken.

b. Each "Hazmat employee," as defined in 49 CFR 171.8, who performs a function subject to this approval must be provided training on the requirements and conditions of this approval in addition to the training required by §§ 172.700 through 172.704.

c. Any person operating under the terms of this approval must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.

Issued in Washington, D.C.

Dated: 01/15/2010

For Dr. Magdy El-Sibaie
Acting Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Materials Safety Administration, Department of Transportation, Washington, D.C. 20590. Attention: PHH-31.