

## Shipping End-Of-Life Lithium Ion Batteries for Recycling/Disposal DOT Special Permit 21139

### “High Energy” Lithium Ion Metal Batteries

#### **DO NOT SHIP LITHIUM METAL BATTERIES IN KULR SAFECASE**

This guide is applicable only to lithium cells and batteries above the energy content threshold listed below:

- Lithium ion cells > 60 Wh
- Lithium ion batteries > 300 Wh

If your lithium battery(ies) is below these limits, please view the applicable guide for “low energy” batteries

For high energy lithium battery shipments per DOT SP 21139, the following applies:

- Cells/batteries must be secured and protected against short circuit
- If cells/batteries are contained in equipment, unintentional activation must be prevented
- Cells/batteries must be placed in KULR TRS bag
- The KULR TRS bag must then be placed in a strong outer fiberboard box (UN 4G box not required)
- Aggregate energy content in a single package cannot exceed 2.1 kWh
- Package must be closed per provided closure instructions
- Ensure that the outer fiberboard package has the following marks/labels:
  - o “DOT SP 21139”
  - o Package must display the Class 9 lithium battery label and UN No. and Proper Shipping Name
    - If standalone lithium ion cells/batteries: Use **UN3480, LITHIUM ION BATTERIES**
    - If lithium ion cells/batteries packed with or contained in equipment: Use **UN3481, LITHIUM ION BATTERIES PACKED WITH EQUIPMENT** or **UN3481, LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT**
- A bill of lading (BOL) associated with the shipment must include, “Lithium batteries intended for recycling in accordance with DOT SP21139”

When following these rules, regulated shipping papers and employee training are not required.



*Lithium ion batteries (UN3480) example*