Packaging and Securing Used Stationary Batteries/Cells

INSTRUCTIONS FOR STACKING USED STATIONARY MONOBLOCK BATTERIES

1. Select a sturdy, stable location with no stents, dividers, or loading ramps.
2. Align the negative battery poles if shipping vertically.
3. Place the battery on the pallet to prevent the direction of gravity from causing the battery to tip over.
4. Check the first battery level and roll as close together as possible. If sense of the battery is altered, they should be placed in the center of the pallet. Any battery of the same type should be placed on the lower layer.
5. Place a level surface (-bearing or) without cardboard (multiple sheets if necessary) between all battery layers.
6. Each layer of batteries placed on the pallet to prevent the possibility of puncturing the battery gem and short circuits.
7. Place cardboard on top of the pallet.
8. Batteries should be secured on the top layer.
9. Skid board only be secured on the top layer. If it is not possible, you will need extra layers of cardboard between the layers of batteries to prevent punctures.

INSTRUCTIONS FOR INVERTING USED STATIONARY MONOBLOCK BATTERIES FOR SHIPMENT

All batteries must be secured to the pallet with stretch wrap.

1. Start with the stretch wrap bundle sideways to create a rope effect (e.g. wrap around the layer of at least two layers).
2. Still using the wrap rope, wrap the layer twice around, creating the top space to form an “X”. This will place the batteries towards the center to prevent batteries from falling off the pallet, a DOT requirement.
3. Hold the stretch wrap (see Fig. 2 and 3) around the battery layer below, being sure to add the edge of the pallet.
4. Finally, after placing cardboard on top of the battery layer, wrap the stretch wrap around the two vertical bands and the top corner of the pallet.

INSTRUCTIONS FOR INVERTING USED STATIONARY MONOBLOCK BATTERIES FOR SHIPMENT

1. Place the battery on the pallet to prevent the direction of gravity from causing the battery to tip over.
2. Place the layer of batteries on the pallet to prevent the possibility of puncturing the battery gem and short circuits.
3. Place a level surface (-bearing or) without cardboard (multiple sheets if necessary) between all battery layers.
4. Each layer of batteries placed on the pallet to prevent the possibility of puncturing the battery gem and short circuits.
5. Place cardboard on top of the pallet.
6. Batteries should be secured on the top layer.
7. Skid board only be secured on the top layer. If it is not possible, you will need extra layers of cardboard between the layers of batteries to prevent punctures.
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INSTRUCTIONS FOR TRANSPORTING USED STATIONARY MONOBLOCK BATTERIES WITH THE GUIDELINES CAN RESULT IN REFUSAL BY THE CARRIER TO ACCEPT MATERIAL. IN ADDITION, FAILURE TO COMPLY CAN RESULT IN FINES AND PENALTIES FROM FEDERAL, STATE, AND LOCAL AUTHORITIES.

Before handling battery/cell(s), please read and adhere to all of the following requirements:

- Wear the appropriate personal protective equipment
- Follow stack/relationship of batteries
- Keep batteries away from all areas
- Do not drop batteries. Place batteries carefully down on skid/pallet
- Use a skid/pallet provided with a new shipment to return used batteries
- Batteries must be upright and secured with wooden cleats on skid/pallet
- Cells must be banded with steel or plastic banding and a minimum of three horizontal bands and two vertical bands around cells are required
- Adequate reinforcement (e.g. plastic) may be placed on the top and sides of the cell to prevent shifting, sagging or distortion
- Skid/pallet must be contact with the bottom of the battery

These guidelines were developed to ensure compliance with DOT regulations.  For further information, contact Unigy Sales at: 610-682-3263 or visit Unigy.com.