#### INTERNATIONAL CONFERENCE ON INDUSTRIAL PACKAGING

SESSION 5: TECHNICAL AND REGULATORY DEVELOPMENTS 26 SEPTEMBER 2023

PAUL RANKIN, PRESIDENT REUSABLE INDUSTRIAL PACKAGING ASSOCIATION

0

MANAGING EMPTY RESIDUE PACKAGING: A GLOBAL PERSPECTIVE

+

0



### Congratulations Eddy!

2023 Recipient Morris Hershson International Award of Excellence

+

0

### It's a global problem!



### Managing empty residue packaging

- Two categories of residue:
  - Regulated material (dangerous goods)
  - Unregulated material

• Focus of presentation: management of dangerous goods ("DG") residue

### Managing empty residue packaging

#### Europe

 Empty residue containers are classified as "wastes" in many EU countries  $\bigcirc$ 

• No common scheme for managing DG residue containers; several EU member-nations have adopted a rule that "empty" means "less than 5% by volume"

#### Canada

The general rule is that a drum must be "thoroughly emptied...."

This means: All the previous contents must be removed <u>by the emptier</u> "...using the most effective method for the type of content (e.g., can include pouring, upending, pumping, aspirating, scraping, rinsing, etc.).

General rule does <u>not</u> apply to firms holding an "equivalency certificate." EC says container is empty if it retains "up to 10% of capacity" for a drum and 1% of capacity for an IBC.

+

0

#### Japan

• Japanese Industrial Standard JIS Z 1641 allows "about 3 liters" of dangerous goods residue in a steel drum managed by a reconditioner.

• JIS Z 1641 also defines "quantity of residue," saying such residue "...shall be as...minimum as possible [after being emptied] by such methods as sucking and turning the drum upside down."

• JDRA has adopted its own drum emptiness standard that is more stringent that the JIS standard. It requires emptiers to drain drums to not greater than 0.5% of its 200-liter capacity, or about .13 gallons (17 ounces) of residue.

#### United States

 Container emptiers must ensure their drums and IBCs are as <u>empty as possible</u> using practices commonly employed to remove materials from drums, (e.g., pumping, pouring and aspiration).

AND

 For viscous materials, not more than 2.5 centimeters (about one inch) of material may remain on the bottom of a drum. For IBCs, not more than 0.3 percent by weight of the total capacity of the IBC may remain. This roughly translates to about 0.8 gallons of material in a 1000 L (275-gallon) IBC.

+

0

#### <u>ICCR</u>

- ICCR International Code of Operating Practice states:
  - No drum or IBC may be accepted that is not empty, unless the firm holds appropriate management permits. "Empty" means all the residue that can be removed by the emptier has been removed using practices commonly employed to remove such material (e.g., pumping, pouring, scraping, etc.).

There is no internationally accepted definition for empty residue drums or intermediate bulk containers (IBCs)

0

- The world needs an internationally consistent definition of an "empty" industrial packaging.
- ICCR should lead the way towards global acceptance of a beneficial global definition of "empty" packaging. The group is respected and has a history of success in international work.
  - UN adopts uniform definitions of reconditioning, remanufacturing, new container markings, reconditioned container markings, and record-keeping.
  - ICCR adopts International Code of Operating Practice
  - UN allows reconditioning of plastic drums and use of regrind in manufacture
  - UN adopts definitions for IBC repair & routine maintenance

 A single, global definition of "empty" will help our industry, our customers and government regulators.

- Limit the amount of residue in packagings
- Motivate governments to focus on the role of emptiers to limit residue in "empty" packaging
  Encourage governments to no longer define residue packaging as "waste"

Adopt a common global approach to empty residue container management

(1) Create a written empty drum and IBC acceptance policy for describing the amount of residue that will be accepted in 200-liter (55-gallon) drums and identifies residues that would and would not be accepted, in accordance with national rules and customs.

(2) Develop a contractual understanding that any emptier who provides a reconditioner with a drum or IBC that fails to meet the emptiness standards would have that container returned to them, as viable product, at their expense.

(3) Create an internationally consistent "empty container certificate" that will be signed by the emptier and accompany each load certifying that the containers moving to a reconditioner meet the local or national emptiness standard.

#### International Conference on Industrial Packaging



# THANK YOU!

