UN/SCETDG/64/INF.70

Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

1 July 2024

Sixty-fourth session
Geneva, 24 June-3 July 2024
Item 4 (b) of the provisional agenda
Electric storage systems:
Hazard-based system for classification
of lithium batteries

Hazard-based system for classification of lithium batteries

Presented by Belgium, France, RECHARGE on behalf of the IWG



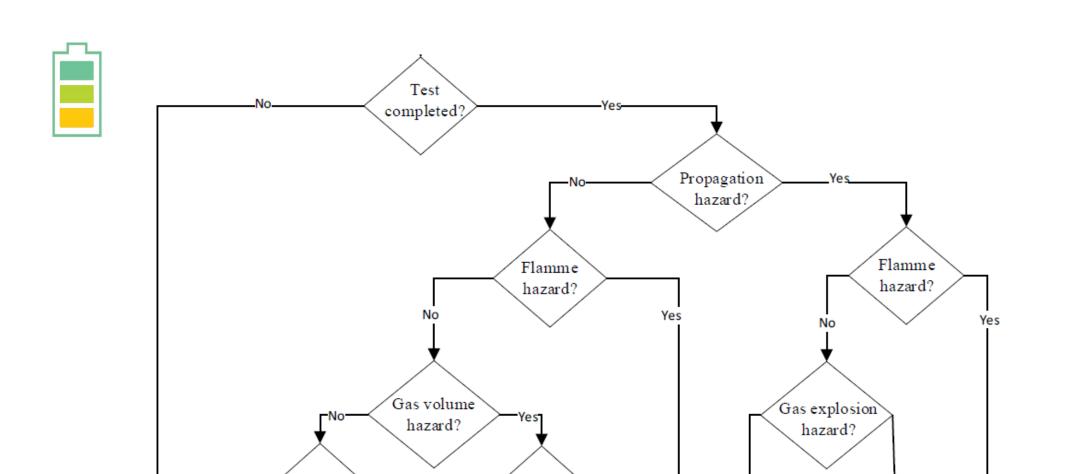
Six key points of the new proposed classification

Summary of key points of paper ST/SG/AC.10/C.3/2024/13 and INF. 26

Hazard-based system for classification of lithium batteries

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Temperature)

hazard?

Yes

94 E

95 E

94 D

95 D

No

94 C

95 C

Yes

94 B

95 B



94 X

95 X

No

94 H

95 H

Temperature

hazard?

Yes

94 G

95 G

No

94 F

95 F

94 A

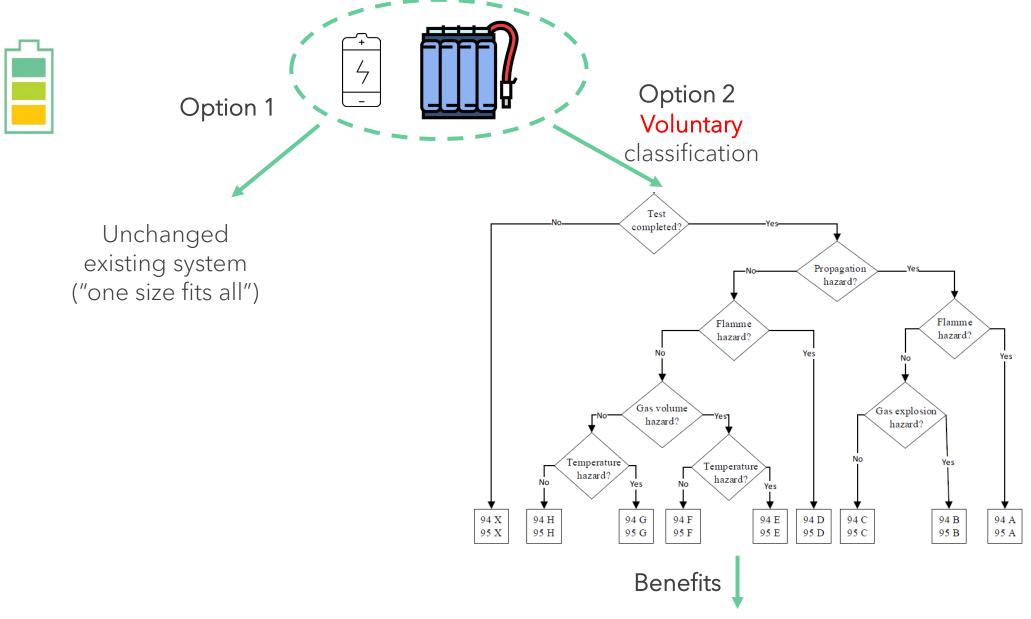
95 A



1. The new classification is optional

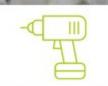
The new tests and classification will be applicable on a <u>voluntary basis only</u> during a transition period. Products can still be transported under the unchanged existing system.





- New transport condition adapted to the identified hazard
 - Possibility to take SoC into account









2. The new classification facilitates transport of "safe batteries"

Transport conditions (currently being draft) are expected to be <u>less stringent</u> than in the current system for low reactivity batteries.



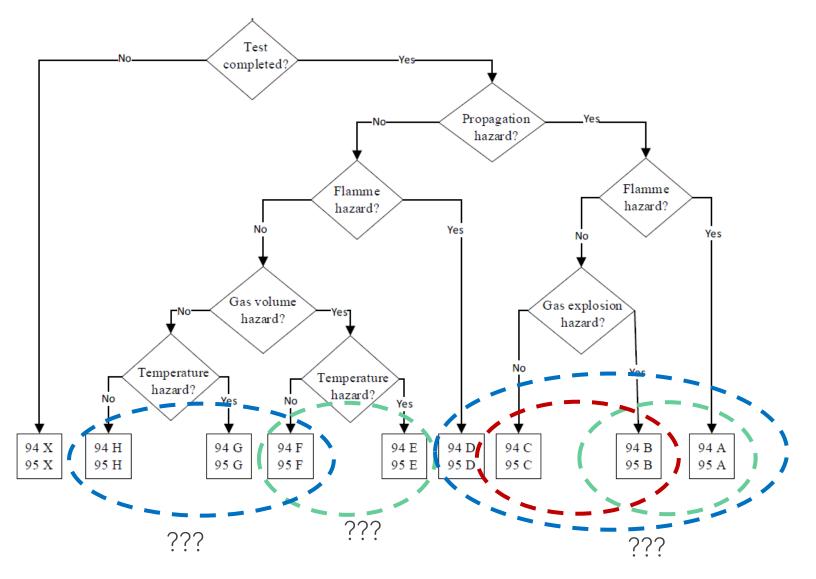


3. The new classification gives more granularity

The classification of hazards scheme represents the <u>maximum expected granularity</u> of the classification. The benefit is to identify when easier transport conditions can be applied.







To be defined according to proposed transport conditions under discussion in the IWG

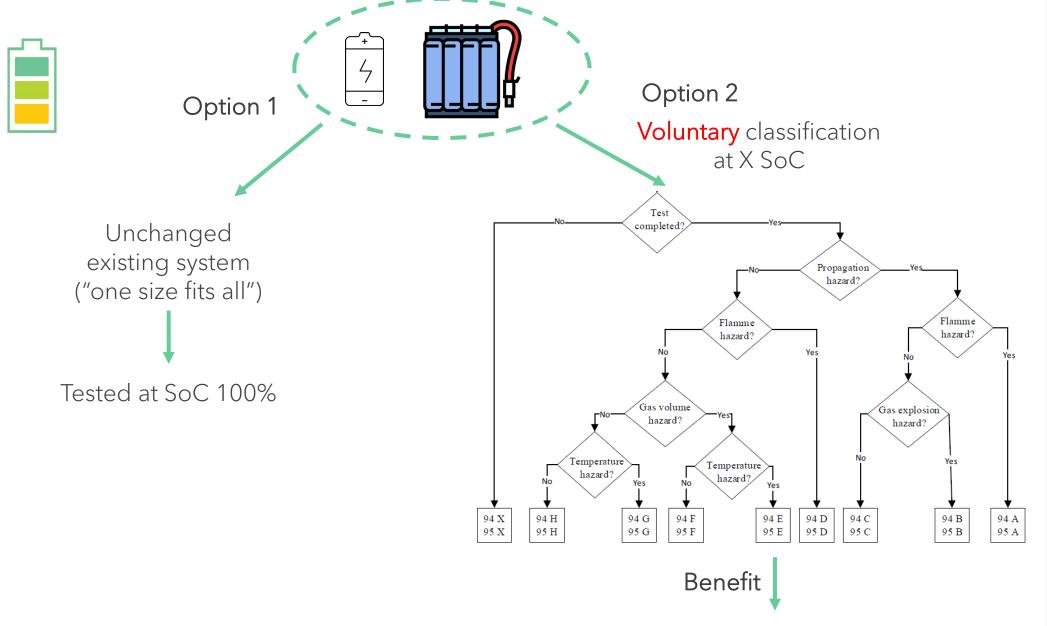




4. The new classification includes SoC

The State of Charge (SoC) of batteries is a major mitigation measure to facilitate safe transport. The proposal clarifies how to benefit of this when it can be verified.





Possibility to take SoC into account

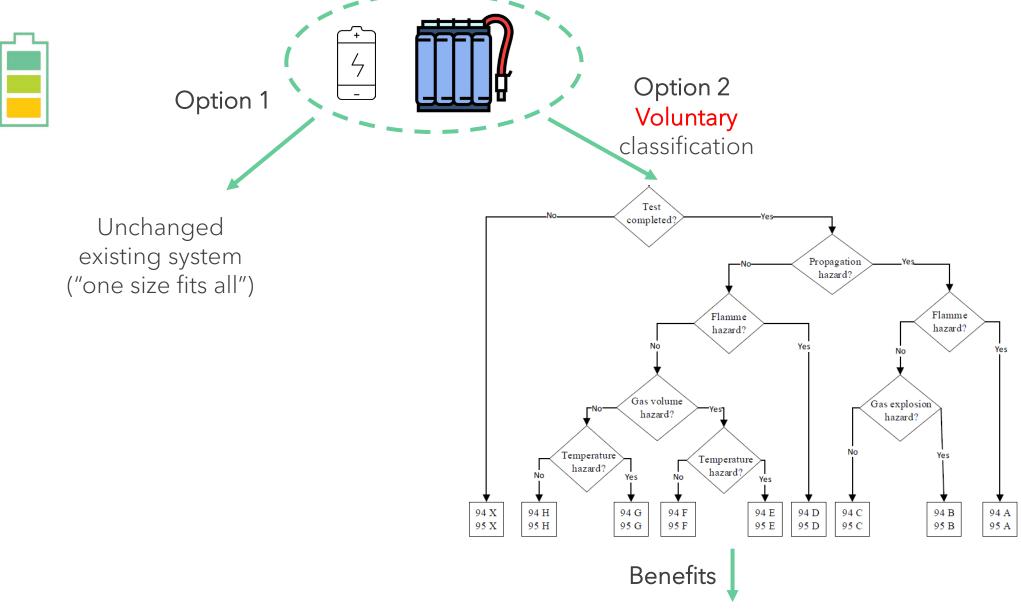




5. The new classification includes sodium ion batteries

Some sodium ion batteries have demonstrated hazards similar to those of lithium batteries, though less severe. The IWG <u>includes the sodium-ion batteries</u> in the new classification system





- New transport condition adapted to the identified hazard
 - Possibility to take SOC into account









6. Further discussion at the IWG

- Continue discussions at the <u>next IWG meeting on August 27-29 in Washington.</u>
- The stakeholders having provided comments to the IWG proposal are welcome to join the discussions in the next IWG meeting.
- During the further development of the proposal, including packaging conditions to assign division, further assessment of additional testing and verification will also be discussed.
- At this point, it is not expected to adopt any new regulation this biennium, but the IWG expects to finalize as soon as possible.

