OICA response to China's low energy content requirement proposal

Present Chinese proposal

Now low energy requirement is optional choice of post crash in 5.2.2.2.

Suggestion:

 Low energy should be necessary requirement in-use for indirect contact protection asisolation resistance requirement.

 If the energy is higher than 0.2J above 60VDC /30VAC, it's a danger to the person when there's an onepoint failure.

Industry Proposal

General remark:

"in use" is too general, we should consider a) "active driving mode" (or "driving") and b) "charging" separately.

For case a):

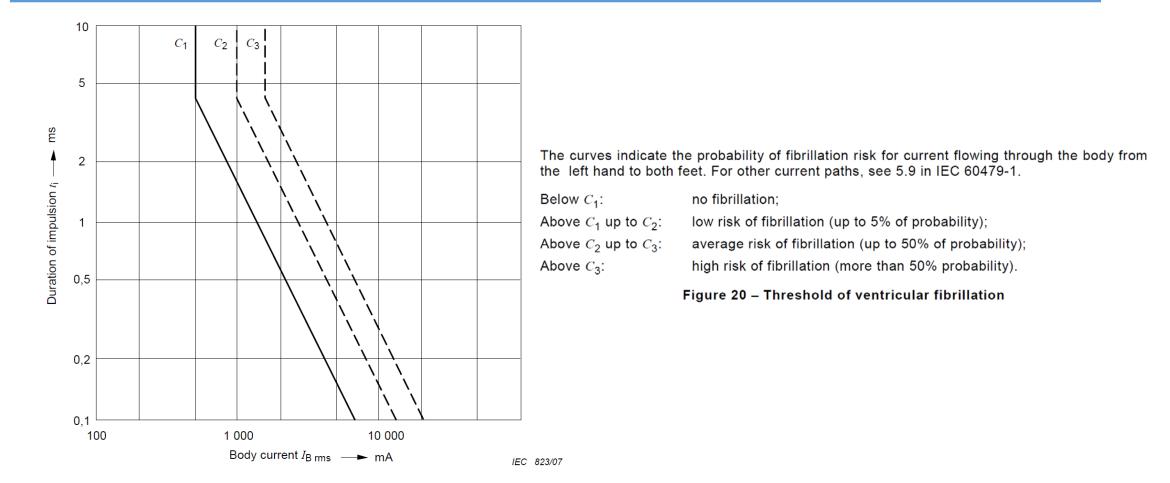
Do not use 0.2 J from ISO 6469-3, but use values from SAE 1772-2017. SAE values are based on IEC 60479/2 and are scientifically based. See next slides.

For case b):

Further investigations are necessary (see expected presentation from U.S.) to define a value.

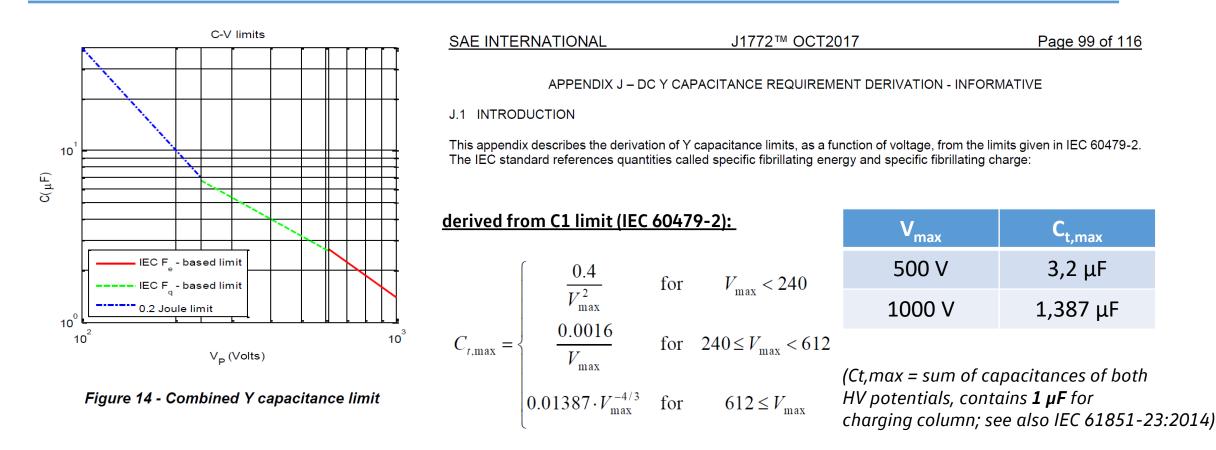
Rationale for IEC 60479-2

IEC 60479-2 ("Biegelmeier curves")



Correct derivation of maximum capacitance

SAE J1772-2017 (maximum capacitance for vehicle and charging column)



Please note: detailled derivation of formulae and figure can be found in SAE J 1772-2017, Appendix J.