GTR 13-2 10th IWG Informal Document

Crash test plans about HDV (Bus) in Korea



Korea Automobile Testing & Research Institute

1. Research Overview

• Korea plan to conduct the crash tests about CNG bus that fuel vessels are located in bottom of vehicle.





<Test Vehicle type(CNG)>

- Objective
 - To study severity of hydrogen fuel system located in underfloor of Bus according to the side impact.
- Test conditions: To consider 3 conditions as below.
 - 1 Representative bus accidents in Korea
 - 2 UN R 134 amendment(Impact Test)
 - ③ Side impact test of FMVSS 303(Fuel System integrity of compressed natural gas vehicles)
- Test Schedule: 9. 2021 ~ 10. 2021

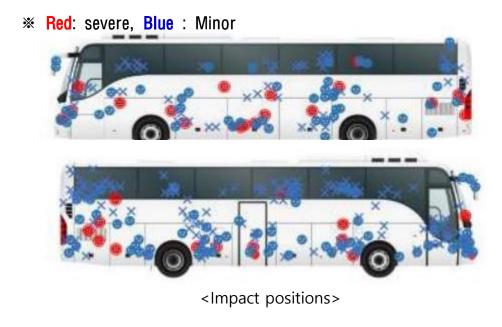


1. Research Overview

- Representative HDV(bus) accidents in Korea
- Accident Statistics: 1,408 accident Data(2018~2019yr) from the biggest transportation Company in Korea
- 1) Side impact collisions

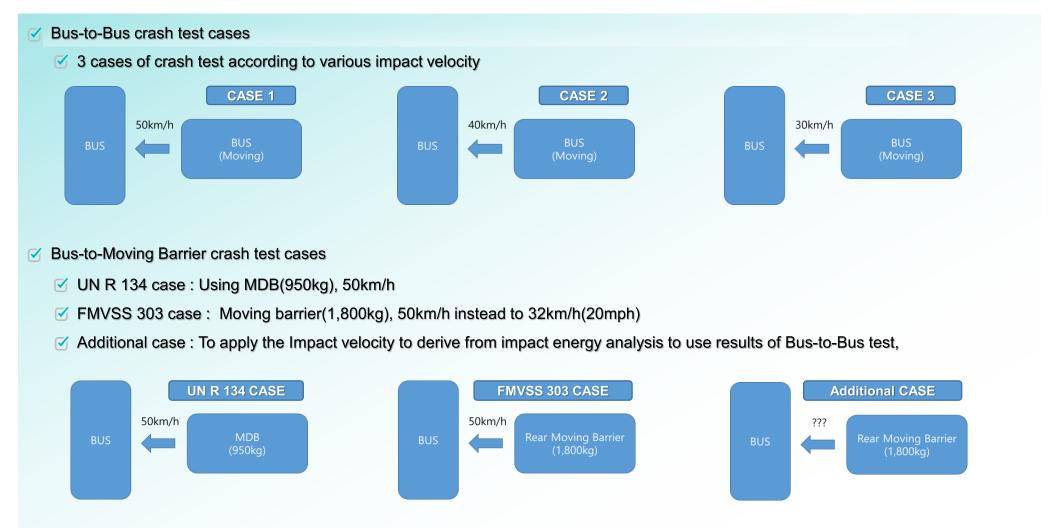


<Side collisions of Bus>



- 2 collision velocity
 - HDV(Bus)-to-LDV: 40~60 km/h, HDV(Bus)-to-HDV(Bus): 15~40km/h

2. Test Matrix



• Test Schedule : 9. 2021 ~ 10. 2021



Thank you for your attention!