Economic Commission for Europe
Inland Transport Committee
Working Party on the Transport of Dangerous Goods

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods 18 February 2019
Bern, 18-22 March 2019
Item 6 of the provisional agenda
Reports of informal working groups

Report of the Informal Working Group on the reduction of the risk of a BLEVE

Transmitted by the Government of Spain on behalf of the Informal Working Group

Annex 5

Preventive measures in parking areas (France)
Preventive measures in parking areas concerning dangerous goods vehicles
Parking limitations on open roads (outside private companies premises)

- Concerned vehicles Class 1 and tanks with a capacity of more than 3000l

- Parking time 2 to 12 h: distance > 10m from houses or buildings open to public

- Parking time over 12 h:

  Outside city limits:
  - Distance > 50 m from houses or buildings open to public
  - 50 m between Class 1 transport units
  - 10 m between other vehicles and with class 1

  Inside city limits: no parking allowed on public infrastructure (only inside secured premises)
Accidents

- BASSENS (30), April 3rd 2016: Gas tank vehicle Bleve

- JONQUIERES (48), gas cylinder explosion on vehicle and storage
Additional measures for private parkings with some TDG vehicles

- Scope
  - Parking with a capacity of more than 30 concerned vehicles or 5 vehicles carrying gases
  
  (Exclusion of transit and/or repair)

- Concerned vehicles
  - Flammable Gas in tanks > 3000l
  - LPG in cylinders > 10000 kg
  - Toxic gases in tanks
  - Flammables liquids PGI and II in tanks > 3000 l
Measures for private Parkings

• 1.80m Fence with « concertina » barbed wire

• Equivalent secured entrance door

• For future parkings the concerned vehicles must be parked 10m from the property limit.

• Parking plan segregating vehicles carrying gases from those carrying flammable liquids
Measures for private Parkings

• Site Plan for fire fighters mentioning:
  - The parking zones for gases and flammable liquids
  - The potential target in the immediate vicinity (buildings etc..)
  - The available fire fighting resources (water etc..)
  - An emergency phone number
  - An estimate of the most commonly present DG
Measures for private Parkings

• Fire prevention
  Where applicable: verify axle heating indicators
  Where applicable: activate battery master switch
  Verify closures for no leakage

• Minimum fire fighting means:
  2 mobile fire extinguishers 50 kg
  Water supply 60m3/h or equivalent
Measures for private Parkings

- Surveillance and fire detection

- Work in progress on the development of automatic detection and fire fighting system