



Handling AFVs in Maritime Transport - Guidance on the carriage of AFVs in ro-ro spaces

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Felicity Ace incident (16/02/22)



PT authorities:

“[...] traditional water extinguishers do not stop lithium-ion batteries from burning.”

Watson Farley & Williams:

“Whilst the carriage of EVs is likely to be no more inherently dangerous than the carriage of ICE vehicles, the dangers they pose are different and the consequences potentially more severe.”

Several EU MS and stakeholders brought this item to the attention of EC in 2020

EC decided to request EMSA to draft guidance on the issue in December 2020

EMSA formed a consultation group

The content of the Guidance was finalised in Feb 2022

Awaiting publication!

- **Scope**
 - Ro-ro passenger ships & ro-ro cargo/PCTCs
 - Risk assessment elements
 - Operational elements
 - All AFVs
 - Based on available research
 - LASH FIRE
 - ALBERO
 - BREND 1 & 2
 - FIRESAFE I & II

- **Composition (approximately 30 participants)**
 - Maritime administrations
 - Ship operators
 - Research institutions
 - Other stakeholders

European Maritime Safety Agency



EU GUIDANCE

ON THE CARRIAGE OF AFVs IN RO-RO SPACES

INTERIM GUIDANCE FOR THE SAFE
CARRIAGE OF ALTERNATIVE FUEL
VEHICLES (AFVS) IN RO-RO SPACES
OF CARGO AND PASSENGER SHIPS

Version final 1.0

Date:

- **Separated in three parts:**

- General;
- Ropax;
- Ro-ro cargo and vehicle carriers;
- + Annexes

- **Precaution against ignition**
 - Identification of vehicles
 - Conditions of carriage
 - Max SoC requirement
 - Low ground clearance
 - Charging
- **Fire suppression and extinguishment**
 - AFVs emergency response procedure
 - Fire suits and specifications

Significant research work is still ongoing and needed

Global regulatory process just starting

Guidance to be published in the coming weeks