2021, September 16th

**This document prepared by UTAC experts is a complementary proposal of OICA 5 proposal about 7.5.2.2: Addition of non-residential limits for conducted emissions**

Although we understand and approve the technical proposal OICA 05 we wish to add the items as follow to this proposal in order to ensure that the vehicle approved for an industrial environment cannot be converted to adapt to residential environments without respecting the limits.

**We propose to add**

* In annex 2A an item 73 concerning the location of charging (residential, commercial, light-industrial or industrial)
* In annex 3A, clause “Appendix to type approval communication form No......... concerning the type approval of a vehicle under Regulation No. 10” create a new item 3 precise for EV and PHEV the location of charging
  + Type vehicle valid for residential location
  + Type vehicle valid for industrial location
* All types of environment should be defined in clause 2 “definition”

**Residential location** (clause 3.1.14 of IEC 61000-6-3 : 2020)

area of land designated for domestic dwellings where the mains power within these locations is directly connected to the low-voltage (lower than 1000Va.c. and 1500 Vd.c.) public mains network

Note 1 to entry: Examples of residential locations are: houses, apartments, farm buildings housing people.

Note 2 to entry: A dwelling can be a single building, separate building or a separate section of a larger building.

Note 3 to entry: Within these locations it is expected to operate a radio receiver within a distance of 10 m from the equipment.

Note 4 to entry: Domestic dwellings are places for one or more people to live

**Industrial location** (clause 3.1.12 of IEC 61000-6-4 : 2018)

location characterized by a separate power network, supplied from a high- or medium-voltage transformer, dedicated for the supply of the installation

Note 1 to entry: Industrial locations can generally be described by the existence of an installation with one or more of the following characteristics:

• items of equipment installed and connected together and working simultaneously;

• significant amount of electrical power generated, transmitted and/or consumed;

• frequent switching of heavy inductive or capacitive loads;

• high currents and associated magnetic fields;

• presence of industrial, high power scientific and medical (ISM) equipment (for example, welding machines).

The electromagnetic environment at an industrial location is predominantly produced by the equipment and installation present at the location. There are types of industrial locations where some of the electromagnetic phenomena appear in a more severe degree than in other installations.

Example locations include metalworking, pulp and paper, chemical plants, car production, farm building, high voltage areas of airports

* After clause 7.5.3.2 “In this case, the manufacturer shall provide a statement that the vehicle shall be used in industrial location only. This information shall be made publicly available following the type approval.”
* Proposal of statement:

**“Manufacturer's declaration for vehicles which shall be exclusively charged in industrial location.**

A duly completed version of this statement shall be submitted to type approval authority if applicable.

The undersigned: (full name and position)

4. Company name and address of manufacturer:

Name and address of the manufacturer's representative (if any):

Declares that

The vehicle(s):

2. Type:

Commercial name(s) (if any):

3. Category of vehicle:

Make and type of the onboard charger:

Type-approval number:

Type-approval last issued on (date):

shall be used in industrial location only. Where “industrial location” is defined as a separate power network, supplied from a high- or medium-voltage transformer, dedicated for the supply of the installation;

and shall not be used in residential location. Where “residential location” is defined as area of land designated for domestic dwellings where the mains power within these locations is directly connected to the low-voltage lower than 1000 V a.c. and 1500 V d.c. public mains network.

Place:

Date:

Name and position in the company:

Signature:”