Approval System for New Mobility

The 52nd Session for GRSP (2012.12.11~14)

Ministry of Land, Infrastructure, Transport and Tourism
Due to Japan’s low birthrate and aging populations, the ratio of senior citizen’s population is increasing, and the vitality of regional towns and cities are shrinking.

Meanwhile, travelers and decreasing senior citizens are looking for more convenient transportations in cities and certain areas. As a solution to this demand, “New Mobility”, which is smaller than ordinary passenger car, is getting people’s interests and attentions.

EU could include this “New Mobility” in the categories of L6 and L7, but Japan does not have the appropriate category for it. Due to this lack of appropriate category in Japan, all of New Mobility fall into the category of M1/N1 and the M1/N1’s safety/environmental standards are applied to them.

As you could see, New Mobility could not meet the technical requirements of safety/environmental standards for M1/N1 for technical reasons.

Therefore, New Approval System for New Mobility is required in order to make it possible for this New Mobility to run on public roads in Japan.

Note）To drive ‘New Mobility’ in Japan, the driver is required to have a driver license for passenger car.
## Positioning of New Mobility

<table>
<thead>
<tr>
<th>Engine Capacity</th>
<th>Rated Output (Electric Vehicle)</th>
<th>0.6kW and less</th>
<th>Exceeding 0.6kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three/Four Wheeled Vehicle</td>
<td>• Rated Output: 8kW* and less (or 125cc or less)</td>
<td>• 6 km/h, or less</td>
<td>• No Vehicle Inspection</td>
</tr>
<tr>
<td></td>
<td>• 2 passengers or less (or, driving seat and of two CRSs)</td>
<td>• Overall length: 2,500mm</td>
<td>• Overall width: 1,300mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overall Height: 2,000mm</td>
<td>• 1 passenger</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Driving on a highway not allowed</td>
<td>• Driving on a highway not allowed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overall length: 1,200mm</td>
<td>• Overall width: 700mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overall Height: 1,090mm</td>
<td>• Overall Height: 1,090mm</td>
</tr>
</tbody>
</table>

*Japan’s Rated Output 8kW is equivalent to Maximum Continuous Rated Power 15kw of Category L7*
Main concepts of how to handle Safety Standards

• Giving the top priority to the securement of safety, some safety standards may be relaxed, provided that ① a vehicle does not drive on highways, and ② drives only in the area where the safety of traffic is secured.
• Main safety standards to be applied will be as follows.

Main standards to be applied as normal

- Rear-view mirror
- Seatbelt
- Acoustic Vehicle Alerting System
  * the device that emits the sound automatically during driving in order to let pedestrians recognize the approach of a highly silent EV
- Display of Standards
  Relaxation mark (front and rear of a vehicle)

Main Standards that could be relaxed

- Passive safety performance (Conformance to the structural requirement)
- Noise Control performance
- Exhaust Gas Control performance

Detailed:

Vehicle of 1,300 mm or less in the width
Following standards could be relaxed since it could be regarded as having characteristic of two-wheeled vehicle
- Fire retardant Interior finishes
  [Device to which two-wheel vehicle standards will be applied]
- Lamps
- Brake
- Locking Devices

Vehicle drive only on the roads with the maximum speed of 30km/h or less
Since there are very few fatality accidents on such roads, the following standards could be relaxed, too.
- Equipment strength of seatbelt
- The other requirement for crash worthiness

Schedule

22 November 2012: Start asking for P.C.
Early January, 2013: Enforcement
Town Planning utilizing New Mobility

A daily Transportation for a short distance (within about 5 km radius area)

→ "Providing new concepts for transportation" and "mobility aids to parents having kids and elderly people" to transportation of daily life like shopping, local activities, and commuting
→ "Activation of Local Society" via movement and communication of people by using ‘New Mobility’
→ "Optimization of Traffic System", and "blending with Compact Town Planning" by connecting to public transportation

Means for Delivery of a small-scale shipping or porter-services

→ load/unload goods from/to vehicle at the narrow space.
→ "Optimization of small-scale and Regional logistics"
→ "Improvement of Service" by actualization of efficient small-scale transportation

Transportations in tourist or commercial area

→ "Discovery of local attraction" by the increase of number and area of attraction spots using ‘New Mobility’
→ "Improve the attractiveness and increase of tourists to Sight-seeing area"
→ "Improvement of additional values in the locals area" by introducing green technology such a EV new mobility

Social Effects of the introduction of New Mobility
<“Guideline to introduce New Mobility” (Published on June 2012>
Thank you for your attention

If you have any questions regarding this system, please contact to the following.
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