

Report from the Informal Working Group on Acceleration Control for Pedal Error (ACPE)

- **Discussion items on 4th and 5th informal meeting**

IWG meeting 1st meeting in web (24, 27 March 2023):

- **Confirmation of TOR**
- **Accident data , existing technologies and state of the art**
- **Discussion items**

IWG meeting 2nd meeting in web (15, 16, 17 May 2023):

- **Confirmation of accident data**
- **Discussion items (ACPE-02-09r2)**
Definition of ACPE, Vehicle categories, Collision obstacle, Requirements,
Distance from obstacle, Velocity (e.g. below 10km/h),

IWG meeting 3rd meeting in BAST (19, 20, 21 September 2023):

- **Pedal application**
- **Discussion for draft proposal of ACPE based on the skeleton document (ACPE-03-14)**

IWG meeting 4th meeting in Japan (21, 22 and 24 November 2023):

- **Discussion for draft proposal of ACPE based on the skeleton document (ACPE-04-18)**
- **Discussion items**
 - **Vehicle category**
 - **Activation target for ACPE (Vehicle, Wall, Pedestrian)**
 - **Test procedure**
 - Standstill - Acceleration (JNCAP)
 - Standstill - Creeping run - Acceleration

IWG meeting 5th meeting in web (17, 18 January 2024):

- **Discussion for draft proposal of ACPE (ACPE-05-06)**
- **Discussion items**
 - **Vehicle category**
 - **Test procedure with test data etc.**

Informal Working Group on ACPE



Vehicle target

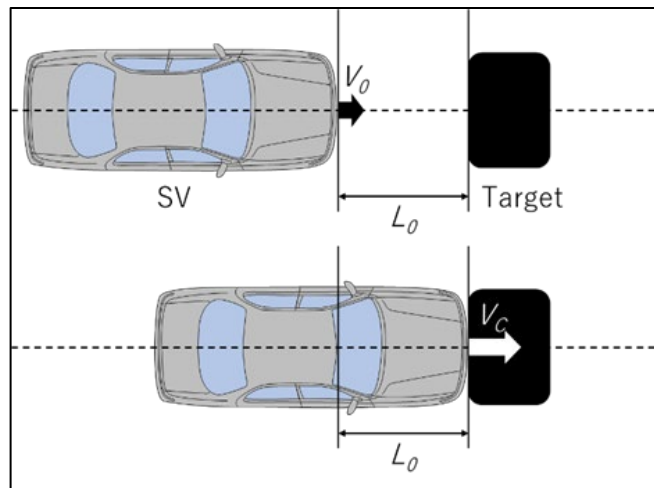


Pedestrian target

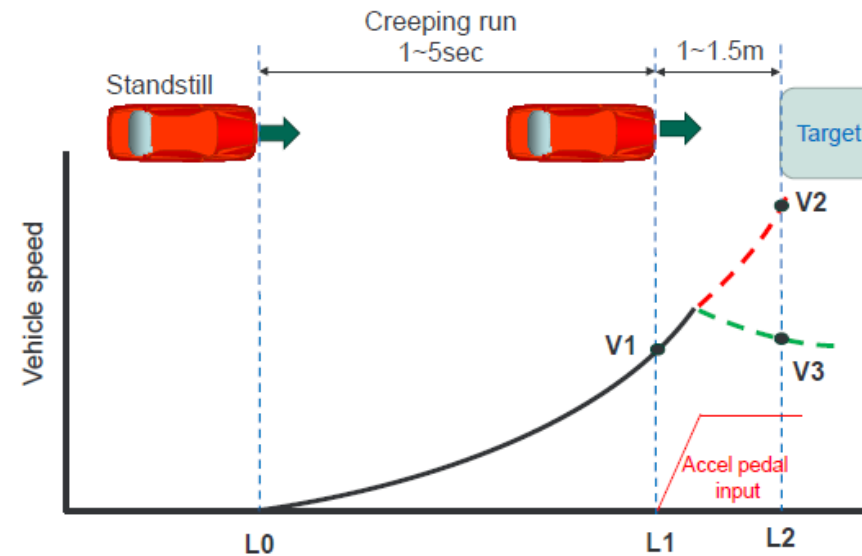
Standstill



Acceleration



Test procedure (Standstill - Acceleration)
(ACPE-04-08)



Test procedure (Standstill - Creeping run - Acceleration)
(ACPE-05-04)

Discussion for draft proposal of ACPE (ACPE-05-06)

Scope

No consensus as to whether N1 Category should be added into the scope with the 01 series

- Some Contracting Parties keen to nationally mandate ACPE on N1 Category
- Other Contracting Parties suggest inclusion of N1 in scope since the requirements can cover N1 (Mutual Recognition)
- Industry keen to make a decision on the basis of accidentology evidence

Request for guidance to GRVA:

“How best translate, into the text of the Scope, the flexibility for the Contracting Parties to nationally mandate ACPE on N1 according to their national accidentology?”

Option 1

Send question back to IWG until accidentology evidence is established

Option 2

Select a text as per next slide

Discussion for draft proposal of ACPE (ACPE-05-06)

Scope (Option 2)

00 series

This UN Regulation applies to the type approval of vehicles of Categories M1 equipped with automatic transmission with regard to their Acceleration Control for Pedal Error systems (APCE).

At the request of a manufacturer, vehicles of category N1 and other categories may be approved under this Regulation. (Text from UNECE R12.)

01 series

This UN Regulation applies to the type approval of vehicles of Categories M1 **[and N1]** equipped with automatic transmission with regard to their Acceleration Control for Pedal Error systems (APCE).

At the request of a manufacturer, vehicles of **[category N1 and]** other categories may be approved under this Regulation. (Text from UNECE R12.)

IWG needs a guidance of GRVA

Discussion of concept of ACPE for the next step for 98 Agreement (GTRs)

- In 4th IWG, Japan informed that some CPs of 98 Agreement would like to discuss the possibility of starting activities for provisions for the contracting parties to the 98 Agreement (GTRs) at the WP.29 session of November 2023.
- IWG agreed to suggest that this be discussed at the GRVA plenary session.

TOR of Informal Working Group on Acceleration Control for Pedal Error (GRVA-15-07/Rev.3)

5. The IWG shall deliver the complete regulatory text for Acceleration Control for Pedal Error (ACPE) requirements as new UN Regulation for the May 2024 session of GRVA.
6. After completing task above, if desired by the Contracting Parties of the 1998 Agreement, the IWG could develop a Global Technical Regulation compatible with the 1998 Agreement for consideration and possible adoption by 1998 Agreement.

Discussion items in 6th IWG (London: 27, 28, 29 February 2024)

- **Discussion for draft proposal of ACPE (ACPE-05-06)**
- **Activation target for ACPE (Vehicle, Wall, Pedestrian)**
- **2 step approach for 00 series and 01 series**
- **Transitional provisions for 01 series**
- **Discussion for test procedure with a data**
 - Standstill - Acceleration (JNCAP)
 - Standstill - Creeping run – Acceleration
 - Activation of ACPE and AEBS

Schedule of meetings:

ACPE-06-02 (Furthermore information)

IWG meetings 6th meeting in London (UK)

27, 28, 29 February 2024

Date	Meeting	Detail
17-18 January 2024	5 th Informal meeting Web (3 hours: 8-11CET)	Discussion about requirements and test procedures
22-26 January 2024	18 th GRVA	Report of IWG activities
27-29 February 2024	6 th Informal meeting In-Person and Web (London)	Discussion about requirements and test procedures
Early or Middle of May 2024	7 th Informal meeting Web or <u>In-person</u>	Discussion about requirements and test procedures
21-24 May 2024	19 th GRVA	Report of IWG activities Submit draft regulation as formal document

**Thank you
for your attention**