


|  |  | Shall driver interruption (over ride) during auto lane change be acceptable? What kind of action should be required for override during auto lane change? (JP) | (JP)No special modification to present text is needed. | TBD |  |  |
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|  |  | Is there any other additional requirement necessary for the Level 3 lane change function? (JP) |  | TBD |  |  |
|  |  | Is it necessary to decide a minimum detection range for directions other than forward (side, diagonal)? (JP) |  | TBD |  |  |
| Both | 1. Traffic situations | Any additional traffic situations which need particular attention and possibly need to be introduced? (based on VMAD input) |  | TBD |  |  |
|  | 2. MRM | During MRM, is it acceptable to stop within the lane? Or should lane change to the shoulder (lane change during MRM) be mandatory?(JP) | (JP)Having the function to change lane to the shoulder (lane change during MRM) should be mandatory for ADS with ODD higher than $60 \mathrm{~km} / \mathrm{h}$ because a stopped vehicle in highway without traffic jam is dangerous. (It is important to have the function of MRM lane change and it can be allowed that MRM lane change is not achieved under some conditions (e.g. when shoulder does not exist).) | TBD |  |  |
|  | 3. HMI | Any change/improvement to current HMI requirement given that more time will be spent without any intervention from the driver? Further harmonization needed? |  | TBD |  |  |
|  | 4. Test, Audit \& Inservice monitoring | During Type Approval, what type of tests should be conducted or provided by the documentation? (Should current requirement be further clarified?) (JP) |  | TBD |  |  |
|  |  | Need to improve present test, especially track tests? |  | TBD |  |  |
|  |  | Does the audit and in-service monitoring need enhanced? |  | TBD |  |  |
| Clarifying Regulation | $\begin{aligned} & \text { 1. Emergency } \\ & \text { vehicles } \end{aligned}$ | How should a vehicle respond? Is it with transition demand or shall it create a corridor? |  | TBD |  |  |
|  |  | Does the system need to react to the direction of an enforcement officer? (UK) |  | TBD |  |  |
|  | 2. Detectable collision | What is a detectable collision? (UK) |  | TBD |  |  |
| Other modifications | 1. Appendix 3 to Annex4 | Should Appendix 3 to Annex4 be replaced? | (JP)Current Appendix3 to Annex4 is important to assess the human driver level. Therefore, Japan suggests to keep current Appendix3 with amendment (e.g. speed extension). If other CP requests to add other requirement, we can discuss to add it as other Appendix or something else. | TBD |  |  |
|  |  | What are the items that need to be changed from M1? (JP) |  | TBD |  |  |
|  |  | Influence of vehicle dynamics for safety distance to the front/detection range. |  | TBD |  |  |
|  |  | Current requirements applicable to M1 are limiting the maximum deceleration during the MRM to $4 \mathrm{~m} / \mathrm{s}^{2}$; should this value be adapted to other vehicle categories, given the lower deceleration potential of heavier categories compared to passenger cars? | (JP) $4 \mathrm{~m} / \mathrm{s} 2$ can be acceptable because no safety concern has been observed. (However, buses with standing passengers should require additional consideration.) | TBD |  | UNR-157-02-10(OICACLEPA) ALKS for HDV - Preliminary responses to GRVA-09-34.pdf |


$|$| HDV ALKS |
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| below $60 \mathrm{~km} / \mathrm{h}^{*}$ |



