

INSTRUCTIONS																						
Seed ID	Situation Analysis						Hazard Identification										Hazard Event Classification					
	Operational Mode	Operational Scenario	Environmental Details	Situation Details	Other Details / Justification	Risk Usage / Potential	Situation Description	Function	Deviation	Deviation Details	Hazardous Event / Deviation Effect	Event Details	Hazardous Event / Consequence	Exposure / Likelihood	Risk / Severity	Severity / Potential Impact	Risk / Severity	Risk / Severity	Controlability / Mitigation	Risk / Severity	ASL / Consequence	Safety Goal
HA-001	CM33 - Normal driving	OSD4 - Highway	EN02 - Rain (slippery road)	SD02 - High speed		LS01 - Correctly used	Normal driving on a highway during rain (slippery road) with high speed and correctly used system.	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback.		OSD4 - Actor effect is too much	The LDW function applies an oscillating torque with very high torque (above 1000).	E100 - Collision with other vehicle	High haptic feedback can impede the driver's ability to steer. The driver could lose control of the vehicle and collide with other vehicles.	The haptic feedback is above a maximum torque level.	E3 - Medium probability	Highway driving at high speeds in the rain is a relatively common occurrence.	S3 - Life threatening or fatal injuries	High speed collisions are often life threatening.	C3 - Difficult to control or uncontrollable	Excessive haptic feedback reduces driver's ability to steer the vehicle.	C	Limit the oscillation torque from the LDW system.
HA-002	CM33 - Normal driving	OSD3 - Country Road	EN01 - Normal conditions	SD02 - High speed		LS02 - Incorrectly used	Normal driving on a country road during normal conditions with high speed and incorrectly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane.		DEV3 - Function always activated	LKA function is always activated.	E100 - Collision with other vehicle	Driver uses the LKA function as if it were meant for fully autonomous driving and therefore can't react in a timely manner to road hazards.	The driver is not using the LKA function properly.	E2 - Low probability	Country driving at high speeds where performance is a key combination.	S3 - Life threatening or fatal injuries	High speed collisions are often life threatening.	C3 - Difficult to control or uncontrollable	Misuse of LKA function by driver makes them compromised to take control of the vehicle.	B	Create a response time window to prevent the LKA system from responding too late.
HA-003	CM33 - Normal driving	OSD3 - Country Road	EN01 - Normal conditions	SD01 - Low speed		LS02 - Incorrectly used	Normal driving on a country road during normal conditions with low speed and incorrectly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane.		DEV3 - Function always activated	LKA function is always activated.	E100 - Collision with other vehicle	Driver uses the LKA function as if it were meant for fully autonomous driving and therefore can't react in a timely manner to road hazards.	The driver is not using the LKA function properly.	E3 - Medium probability	Country driving at low speeds while performing using the system is a common combination.	S2 - Severe and life threatening injuries	Low speed collisions are often life threatening injuries.	C2 - Normally controllable	Misuse of LKA function by driver makes them compromised to take control of the vehicle.	A	Warning when LKA function was misused.
HA-004	CM01 - Parked	OSD3 - Country Road	EN01 - Normal conditions	SD01 - Low speed		LS02 - Incorrectly used	Parking on a country road during normal conditions with low speed and incorrectly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane.		DEV3 - Function always activated	LKA function is always activated.	E1-01 - Side collision with obstacle	Driver uses the LKA function as if it were meant for fully autonomous driving and therefore may collide and collide with obstacles.	The driver is not using the LKA function properly.	E3 - Medium probability	Parking at low speeds is a common combination.	S0 - No injuries	Parking with low speeds would not cause injuries.	C0 - Controllable in general	Parking in low speeds controllable in general.	GM	Warning when LKA function was misused.