

Hazard ID	Situational Analysis							Hazard Identification					Hazardous Event Classification					Determination of ASIL and Safety Goals			
	Operational Mode	Operational Scenario	Environmental Details	Situation Details	Other Details (optional)	Item Usage (function)	Situation Description	Function	Deviation	Deviation Details	Hazardous Event (qualitative effect)	Event Details	Hazardous Event Description	Exposure (of situation)	Rationale (for exposure)	Severity (of potential harm)	Rationale (for event/vt)	Controllability (of hazardous event)	Rationale (for controllability)	ASIL Determination	Safety Goal
HA-001	CM03 - Normal Driving	OS04 - Highway	EN06 - Rain (slippery road)	SD002 - High speed		IL001 - 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.	DV04 - Actor effect is too much	The Lane Departure Warning function applies an oscillating torque with very high torque (above limit.)	EV00 - Collision with other vehicle.	High haptic feedback can affect driver's ability to steer as intended. The driver loses control and could collide with another vehicle or side of the road.	The Lane Departure Warning function applies an oscillating torque with very high torque (above limit.)	E3 - Medium probability	Driving on a highway with rain could happen between 1% and 10% of the time operating the vehicle.	E3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	It is difficult to stay calm and react properly when the steering wheel is moving too much.	C	The oscillating steering torque from the Lane Departure Warning function shall be limited.
HA-002	CM03 - Normal Driving	OS03 - Country Road	EN01 - Normal conditions	SD002 - High speed		IL002 - 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 one lane.	DV03 - Function is always activated	Lane Keeping function is always activated	EV00 - Collision with other vehicle.	Driver use the function as if the car was a self-driving car and loose driving attention.	The driver do not use the function properly.	E2 - Low probability	The collision between driving at a country road and misusing system should not happen often. Less than 1% of the time operating the vehicle.	E3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	When the driver loose focus on driving, it is difficult to re-focus in the case of imminent collision.	B	The Lane Keeping Assistance function shall be time limited, and additional steering torque shall end after a given time interval so the driver cannot misuse the system for autonomous motion.
HA-003	CM03 - Normal Driving	OS04 - Highway	EN06 - Rain (slippery road)	SD002 - High speed		IL001 - 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.	DV02 - Function unexpectedly activated	The Lane Departure Warning function continues to be activated even though the camera subsystem stops sending request for LDW activity.	EV00 - Collision with other vehicle.	LDW continues to function by exerting random torque to the steering wheel, with the possible danger that the driver loses control and collides with other vehicles.	The LDW function continues to be active even in the absence of requests from the camera subsystem.	E3 - Medium probability	Driving on a highway with rain could happen between 1% and 10% of the time operating the vehicle.	E3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	When the driver loose control of the vehicle is very difficult to realize the situation and act accordingly.	C	The Lane Departure Warning function shall be deactivated when the camera sensor stop working.
HA-004	CM03 - Normal Driving	OS04 - Highway	EN06 - Rain (slippery road)	SD002 - High speed		IL001 - Correctly used	Normal driving on a highway during rain (slippery road) with high speed and correctly used system	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in one lane.	DV02 - Function unexpectedly activated	The Lane Keeping Assistance function continues to be activated even though the camera subsystem stops sending request for LKA activity.	EV00 - Collision with other vehicle.	LKA continues to function by exerting random torque to the steering wheel, with the possible danger that the driver loses control and collides with other vehicles.	The LKA function continues to be active even in the absence of requests from the camera subsystem.	E3 - Medium probability	Driving on a highway with rain could happen between 1% and 10% of the time operating the vehicle.	E3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	When the driver loose control of the vehicle is very difficult to realize the situation and act accordingly.	C	The Lane Keeping Assistance function shall be deactivated when the camera sensor stop working.