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{

"nlp": " The system should prevent dangerous unintended acceleration",

"LESS": "THE System SHALL PREVENT dangerous unintended acceleration"

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{

"nlp": " The system should avert hazardous unintended acceleration",

"LESS": "THE System SHALL PREVENT hazardous unintended acceleration"

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{

"nlp": "Any dangerous unintended deceleration shall be prevented by the system",

"LESS": "THE System SHALL PREVENT dangerous unintended deceleration"

},

{

"nlp": "The system should prevent loss of deceleration that is unintended",

"LESS": "THE System SHALL PREVENT unintended loss of deceleration"

},

{

"nlp": "The drive pedal should check the sensor signals of the drive pedal for plausibility",

"LESS": "THE Drive\_Pedal SHALL CHECK THE sensor\_signals OF THE Drive\_Pedal FOR plausibility"

},

{

"nlp": "The drive pedal must check its internal sensor signals for plausibility ",

"LESS": "THE Drive\_Pedal SHALL CHECK THE internal sensor\_signals OF THE Drive\_Pedal FOR plausibility"

},

{

"nlp": "The throttle valve shall check the sensor signals of the throttle valve for plausibility ",

"LESS": "THE Throttle\_Valve SHALL CHECK THE sensor\_signals OF THE Throttle\_Valve FOR plausibility"

},

{

"nlp": "The engine control unit should protect torque-related signals affecting other ECUs using a signal compound",

"LESS": "THE Engine\_Control\_Unit SHALL protect torque\_signals\_affecting\_requirements\_of\_other\_ECUs BY USING a signal\_compound"

},

{

"nlp": "using appropriate plausibility checks the engine control unit must detect errors in the actuator",

"LESS": "THE Engine\_Control\_Unit SHALL DETECT THE errors OF THE actuator BY USING appropriate plausibility\_checks"

},

{

"nlp": "The engine control unit must check internal actuator signals for plausibility",

"LESS": "THE Engine\_Control\_Unit SHALL CHECK THE internal signals OF THE actuator FOR plausibility"

},

{

"nlp": "The engine control unit shall detect and confirm any undesired high driving torque state",

"LESS": "THE Engine\_Control\_Unit SHALL DETECT AND confirm undesired High driving\_torque state"

},

{

"nlp": "unintended acceleration shall be detected and confirmed by the engine control unit",

"LESS": "THE Engine\_Control\_Unit SHALL DETECT AND confirm unintended acceleration"

},

{

"nlp": "If undesired high driving torque is detected, the engine control unit must switch to a safe state",

"LESS": "IF undesired High driving\_torque IS detected THEN THE Engine\_Control\_Unit SHALL SWITCH TO safe\_state"

},

{

"nlp": "The engine control unit must switch to a safe state, if acceleration is not intended",

"LESS": "IF acceleration IS NOT intended THEN THE Engine\_Control\_Unit SHALL SWITCH TO safe\_state"

},

{

"nlp": "The engine control unit should monitor the function controller",

"LESS": "THE Engine\_Control\_Unit SHALL monitor THE Function\_Controller"

},

{

"nlp": "Integrity of the lamp switch on request should be protected against spoofing by the system ",

"LESS": "THE System SHALL protect THE integrity OF THE Lamp\_switch\_on\_request AGAINST spoofing"

},

{

"nlp": "The navigation ECU must detect control signals that are malicious",

"LESS": "THE Navigation\_ECU SHALL DETECT malicious control\_signals"

},

{

"nlp": "The navigation ECU should avoid malicious control signals from being transmitted ",

"LESS": "THE Navigation\_ECU SHALL PREVENT malicious control\_signals FROM being\_transmitted"

},

{

"nlp": "Control signals that are malicious must be detected by the gateway",

"LESS": "THE Gateway SHALL DETECT malicious control\_signals"

},

{

"nlp": "The gateway shall drop any detected malicious control signals",

"LESS": "THE Gateway SHALL drop malicious control\_signals"

},

{

"nlp": "The power switch must detect spoofing of the lamp switch-on request by verifying its MAC",

"LESS": "THE Power\_Switch SHALL DETECT spoofing OF THE Lamp\_switch\_on\_request BY VERIFYING its MAC"

},

{

"nlp": "Lamp switch-on request that are detected as spoofed, should be dropped by the power switch",

"LESS": "THE Power\_Switch SHALL drop Lamp\_switch\_on\_request THAT are detected AS spoofed"

},

{

"nlp": "If a request is made, the body control ECU must generate a MAC for the lamp switch-on request",

"LESS": "IF A request IS made THEN THE Body\_Control\_ECU SHALL generate a MAC FOR THE Lamp\_switch\_on\_request"

},

{

"nlp": "The body control ECU shall transmit the generated MAC for a lamp switch-on request along with its own MAC",

"LESS": "THE Body\_Control\_ECU SHALL transmit THE generated MAC OF THE Lamp\_switch\_on\_request WITH its own MAC"

},

{

"nlp": "The gateway must not transfer the signals from the navigation ECU to the headlamp system except for those included in the whitelist",

"LESS": "THE Gateway SHALL NOT transfer signals FROM THE Navigation\_ECU TO THE Headlamp\_system EXCEPT FOR signals\_in\_white\_list"

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