USDOT Plugtest
May 8-12, 2017

Test Plan for the Field Test Track at the SwRI

The following vehicle tests are being prepared to run at the test track from the 2945/1 procedures:

The Test IDs refer to the SAEJ2945/1 test procedures updated on April 21, 2017

Identifier TP-BSM-MV-BV-01
Test Objective Verify certificate is not changed if travel distance is less that vCertChangeDistance unless reset or the certificate expires

Identifier TP-BSM-MV-BV-02-V
Test Objective Verify accuracy of localization data provided by IUT

Identifier TP-BSM-MV-BV-03
Test Objective Verify accuracy of DE_Heading element provided by IUT when vehicle speed is less than or equal to vHeadingSpeedThresh

Identifier TP-BSM-MV-BV-04
Test Objective Verify accuracy of DE_Heading element provided by IUT when vehicle speed is greater than vHeadingSpeedThresh

Identifier TP-BSM-MV-BV-05
Test Objective Verify the heading latches and unlatches properly at low speed

Identifier TP-BSM-MV-BV-06
Test Objective Verify content of DF_PathHistory and DF_PathPrediction

There's no testing planned for the tests which require a CAN/vehicle data connection:

Identifier TP-BSM-MV-BV-07-X
Test Objective Verify proper critical event flags are set in an acceptable time

Identifier TP-BSM-MV-BV-08
Test Objective Verify proper values of Traction, ABS, SCS, brakeBoost, and auxBrakes

Identifier TP-BSM-MV-BV-09
Test Objective Verify proper value of wheelBrakesUnavailable when no braking status is available

Identifier TP-BSM-MV-BV-10
Test Objective Verify proper values of DE_ExteriorLights

Identifier TP-BSM-MV-BV-11
Test Objective Verify proper values of wheelBrakes and wheelBrakesUnavailable when braking status for each wheel is available

Identifier TP-BSM-MV-BV-12
Test Objective Verify proper values of wheelBrakes and wheelBrakesUnavailable when only a single braking status indication is available

Identifier TP-BSM-MV-BV-13
Test Objective Verify vehicle transmission is properly reported if available

Identifier TP-BSM-MV-BV-14
Test Objective Verify vehicle length and width are accurate