**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

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| **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 |

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

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| **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 |

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| **Identifier** | TP-BSM-MV-BV-04 |
| **Test Objective** | Verify accuracy of DE\_Heading element provided by IUT when vehicle speed is greater than vHeadingSpeedThresh |

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

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| **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:

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

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

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

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| **Identifier** | TP-BSM-MV-BV-10 |
| **Test Objective** | Verify proper values of DE\_ExteriorLights |

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

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

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| **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 |  |