

Report Generated by Test Manager

Title: MIL Verification Report
Author: Executed for rarora by Jenkins
Date: 14-Oct-2020 12:19:35

Test Environment

Platform: PCWIN64
MATLAB: (R2020b)


Summary

Name	Outcome	Duration (Seconds)
Results: 2020-Oct-14 12:19:06	2 ✓	15.641
 Mode Logic TC	2 ✓	15.64
 Mode Logic MIL	2 ✓	15.642
 Mode Logic TestSequence	✓	6.813
 Mode Logic ExcelImport	✓	4.043

Results: 2020-Oct-14 12:19:06

Result Type: Result Set
Parent: None
Start Time: 14-Oct-2020 12:19:12
End Time: 14-Oct-2020 12:19:28
Outcome: Total: 2, **Passed: 2**

Aggregated Coverage Results

Analyzed Model	Sim Mode	Complexity	Decision	Condition	MCDC
 Mode Logic Explorer	Normal	22	81%	83%	50%

[Back to Report Summary](#)

Mode_Logics_TC

Test Result Information

Result Type: Test File Result
Parent: [Results: 2020-Oct-14 12:19:06](#)
Start Time: 14-Oct-2020 12:19:12
End Time: 14-Oct-2020 12:19:28
Outcome: Total: 2, **Passed: 2**

Test Suite Information

Name: Mode_Logics_TC

Test Suite Requirements

Description: Algorithm For HEV System Power Management
(HEV_PowSupervisory#1)
Document: ../requirements/HEV_PowSupervisory.slreqx

[Back to Report Summary](#)

Mode_Logics_MIL

Test Result Information

Result Type: Test Suite Result
Parent: [Mode_Logics_TC](#)

Start Time: 14-Oct-2020 12:19:12
End Time: 14-Oct-2020 12:19:28
Outcome: Total: 2, **Passed: 2**

Test Suite Information

Name: Mode_Logic_MIL

Test Suite Requirements

Description: Algorithm For HEV System Power Management
(HEV_PowSupervisory#1)
Document: ../requirements/HEV_PowSupervisory.slreqx

[Back to Report Summary](#)

Mode_Logic_TestSequence

Test Result Information

Result Type: Test Case Result
Parent: [Mode Logic MIL](#)
Start Time: 14-Oct-2020 12:19:12
End Time: 14-Oct-2020 12:19:19
Outcome: **Passed**

Test Case Information

Name: Mode_Logic_TestSequence
Type: Simulation Test

Test Case Requirements

Description: Operation Modes (HEV_PowSupervisory#4)
Document: ../requirements/HEV_PowSupervisory.slreqx

Description: Low speeds/Start (HEV_PowSupervisory#5)
Document: ../requirements/HEV_PowSupervisory.slreqx

Description: Acceleration (HEV_PowSupervisory#6)
Document: ../requirements/HEV_PowSupervisory.slreqx

Description: Braking (HEV_PowSupervisory#9)
Document: ../requirements/HEV_PowSupervisory.slsreqx

Logical and Temporal Assessments

Name	Assessment
✔ Low Charge Engine Active	At any point in time, if ((GeneratorEnable == True) & (EngineEnable == True)) becomes true then, with no delay, (MotorEnable == False) must be true
✔ Regenerative Behaviour	At any point in time, if (Brake >= FivePercent) becomes true then, with no delay, (MotorEnable == True) must be true

Simulation

System Under Test Information

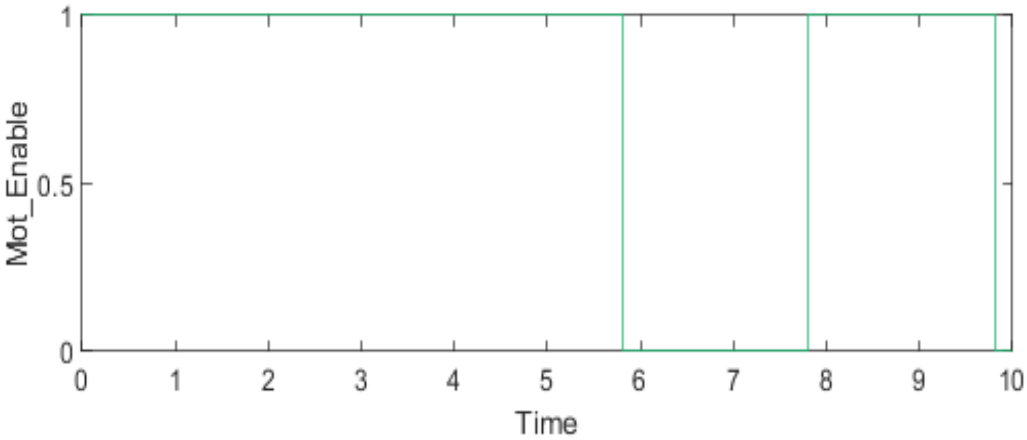
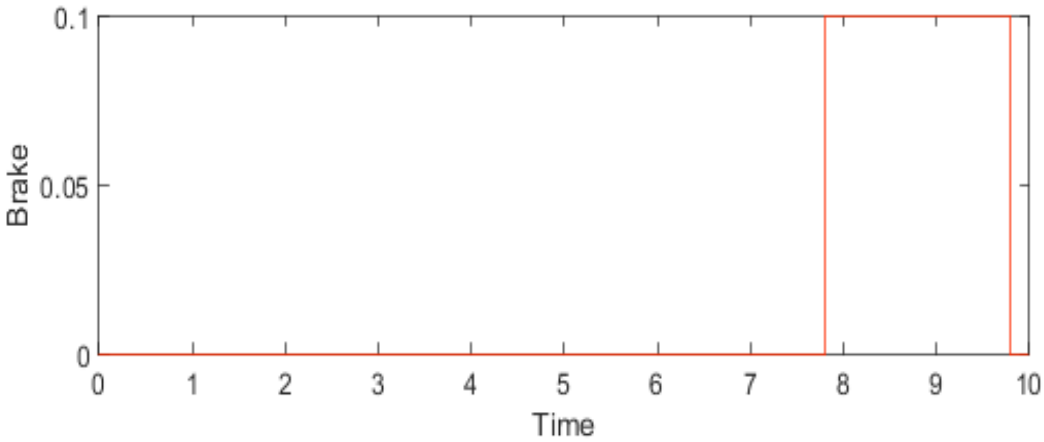
Model: Mode_Logic_Ex
Harness: Mode_Logic_Ex_Harness1
Harness Owner: Mode_Logic_Ex
Release: Current
Simulation Mode: normal
Override SIL or PIL: 1
Mode:
Configuration Set: ModelReferencing
Start Time: 0
Stop Time: 10
Checksum: 3775655585 1064904917 2300883564 1937877756

Simulation Output

Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Brake	double		0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link
Brake	double		0.001	zoh	union	Link
Charge	double		0.001	zoh	union	Link

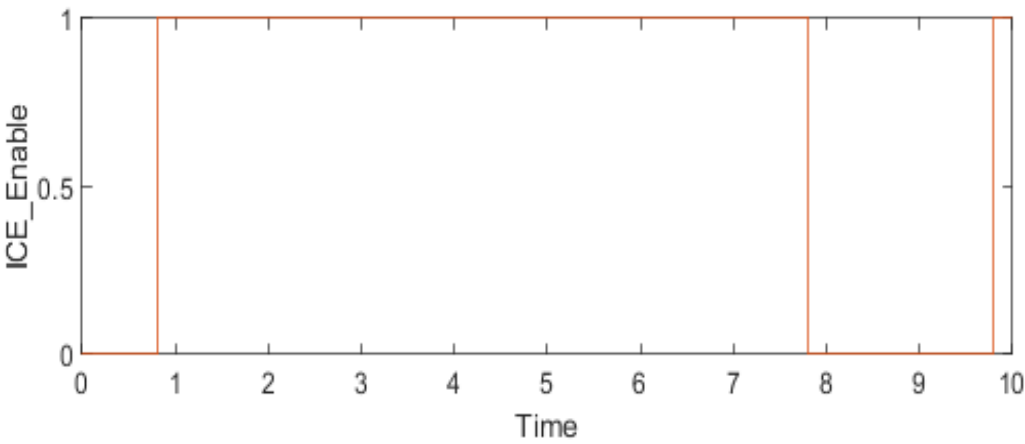
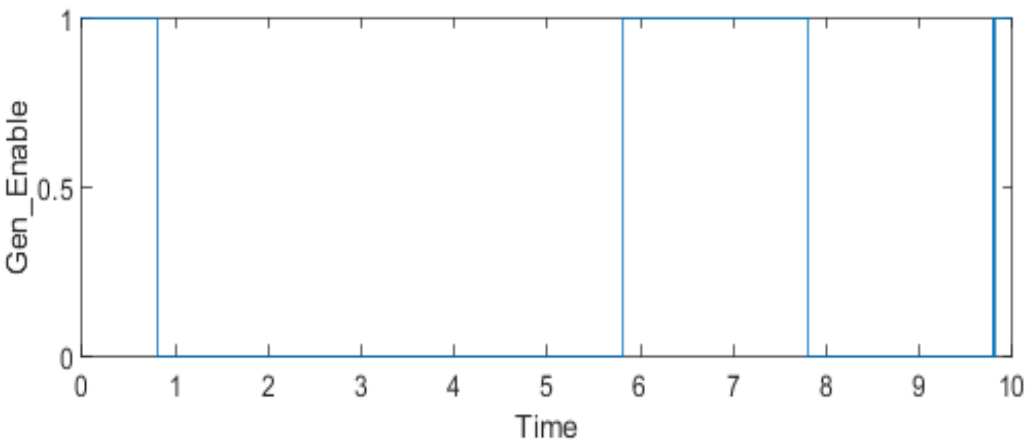
EngSpeed	double		0.001	zoh	union	Link
Speed	double	km/hr	0.001	zoh	union	Link
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		0.001	zoh	union
Mot_Enable	double		0.001	zoh	union



[Back to Report Summary](#)[Back to Signal Summary](#)

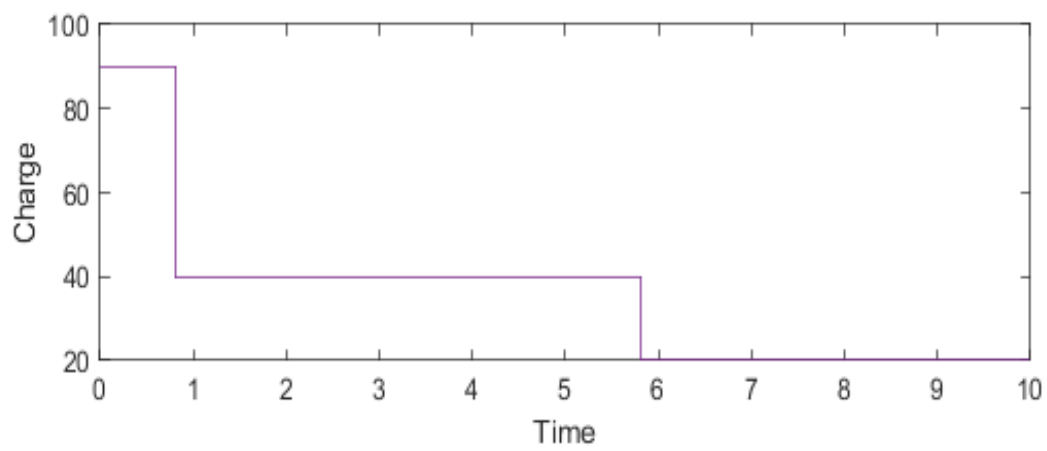
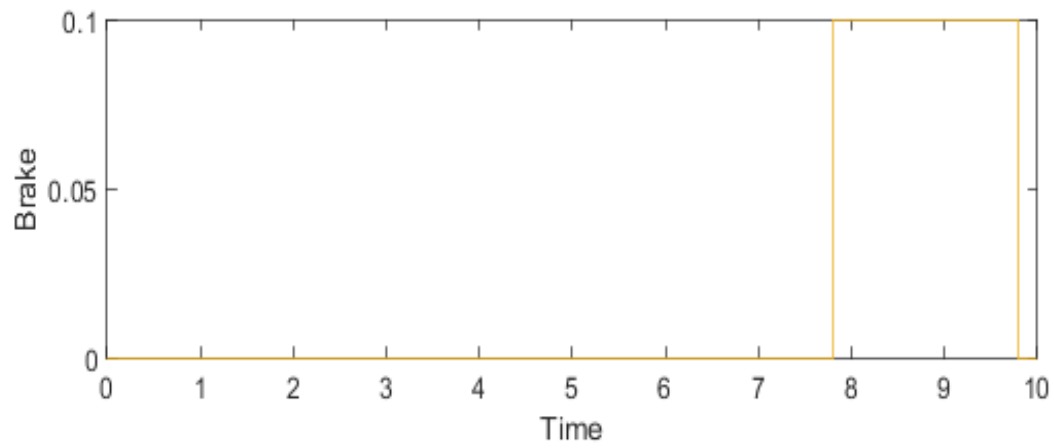
Name	Data Type	Units	Sample Time	Interp	Sync
Gen_Enable	double		0.001	zoh	union
ICE_Enable	double		0.001	zoh	union



[Back to Report Summary](#)[Back to Signal Summary](#)

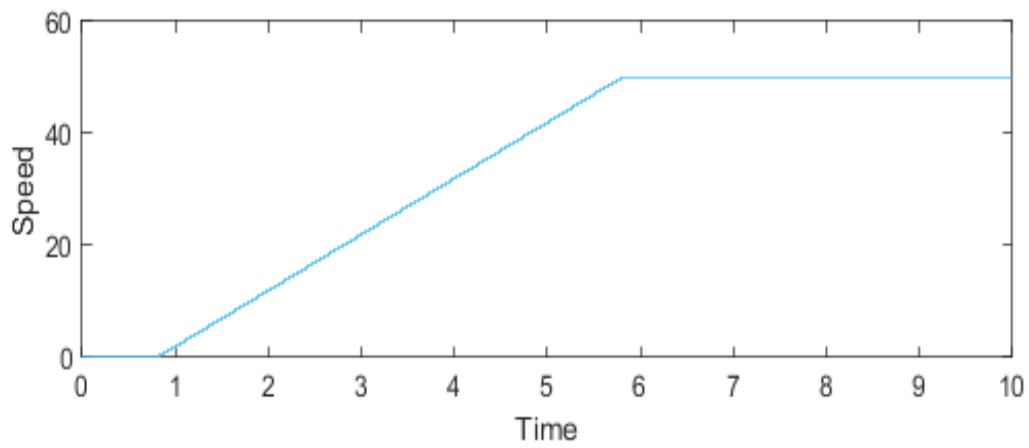
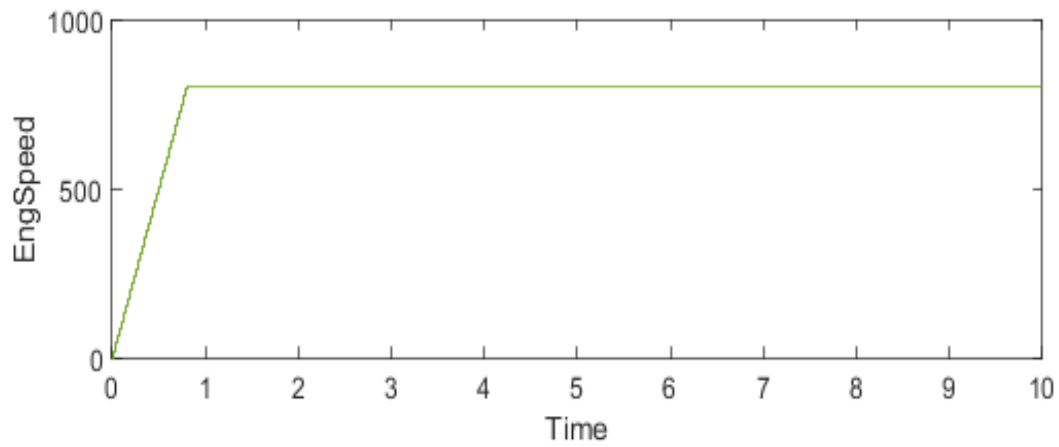
Name	Data Type	Units	Sample Time	Interp	Sync
Brake	double		0.001	zoh	union

Charge	double	0.001	zoh	union
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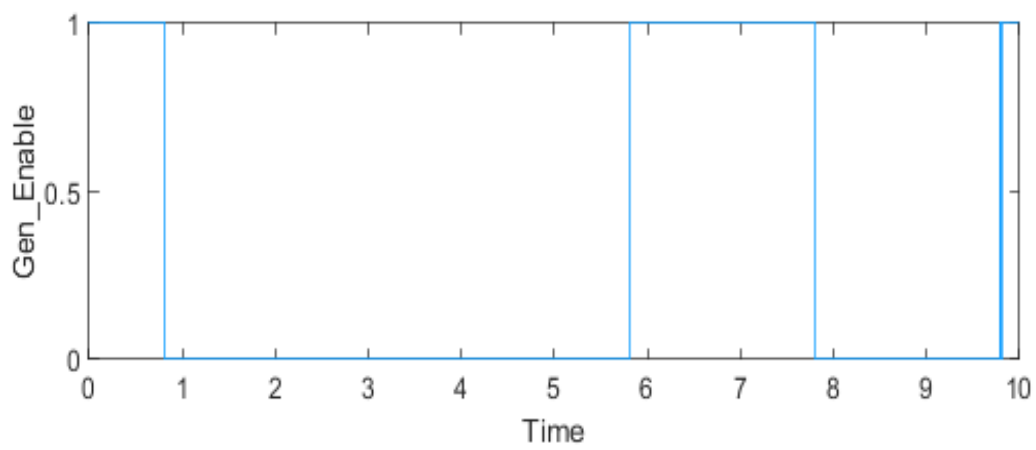
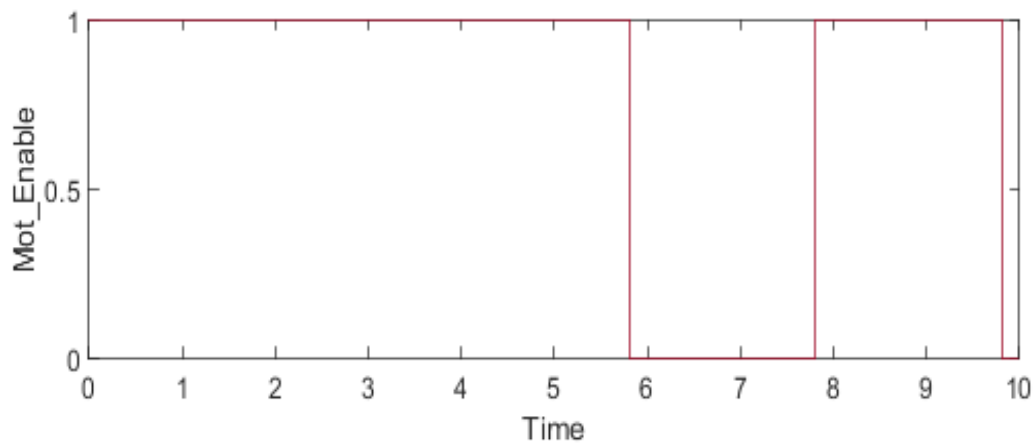
[Back to Report Summary](#)[Back to Signal Summary](#)

Name	Data Type	Units	Sample Time	Interp	Sync
EngSpeed	double		0.001	zoh	union
Speed	double	km/hr	0.001	zoh	union



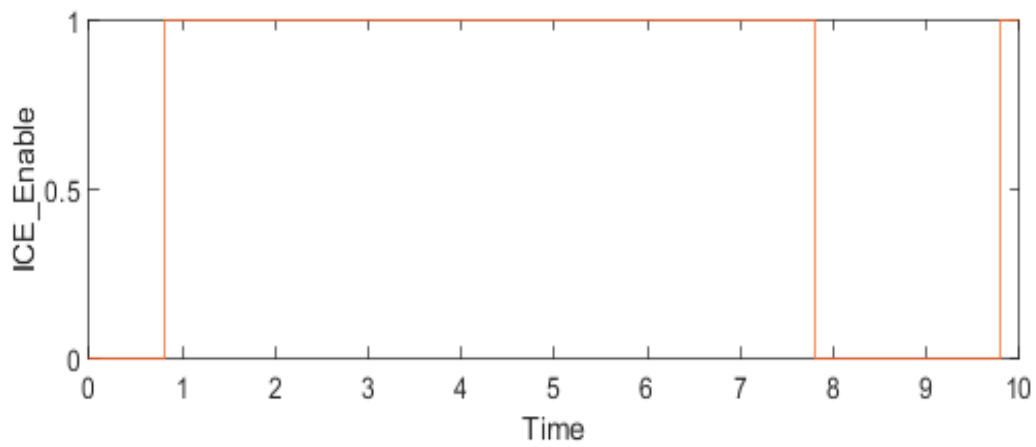
[Back to Report Summary](#)[Back to Signal Summary](#)

Name	Data Type	Units	Sample Time	Interp	Sync
Mot_Enable	double		0.001	zoh	union
Gen_Enable	double		0.001	zoh	union



[Back to Report Summary](#)[Back to Signal Summary](#)

Name	Data Type	Units	Sample Time	Interp	Sync
ICE_Enable	double		0.001	zoh	union



[Back to Report Summary](#)[Back to Signal Summary](#)

Simulation Logs:

'ICE_Enable' is defined, but is never used in the Test Sequence block. [Delete this object.](#)

[Back to Report Summary](#)

Mode_Logic_ExcelImport

Test Result Information

Result Type: Test Case Result
Parent: [Mode Logic MIL](#)
Start Time: 14-Oct-2020 12:19:24
End Time: 14-Oct-2020 12:19:28
Outcome: **Passed**




Test Case Information

Name: Mode_Logic_ExcelImport
Type: Baseline Test
Baseline Name: baseline_output
Baseline File: C:\Work\Jenkins\MBD_Jenkins\testmngt\testcases\
ModelLogic_TestScenario.xlsx

Test Case Requirements

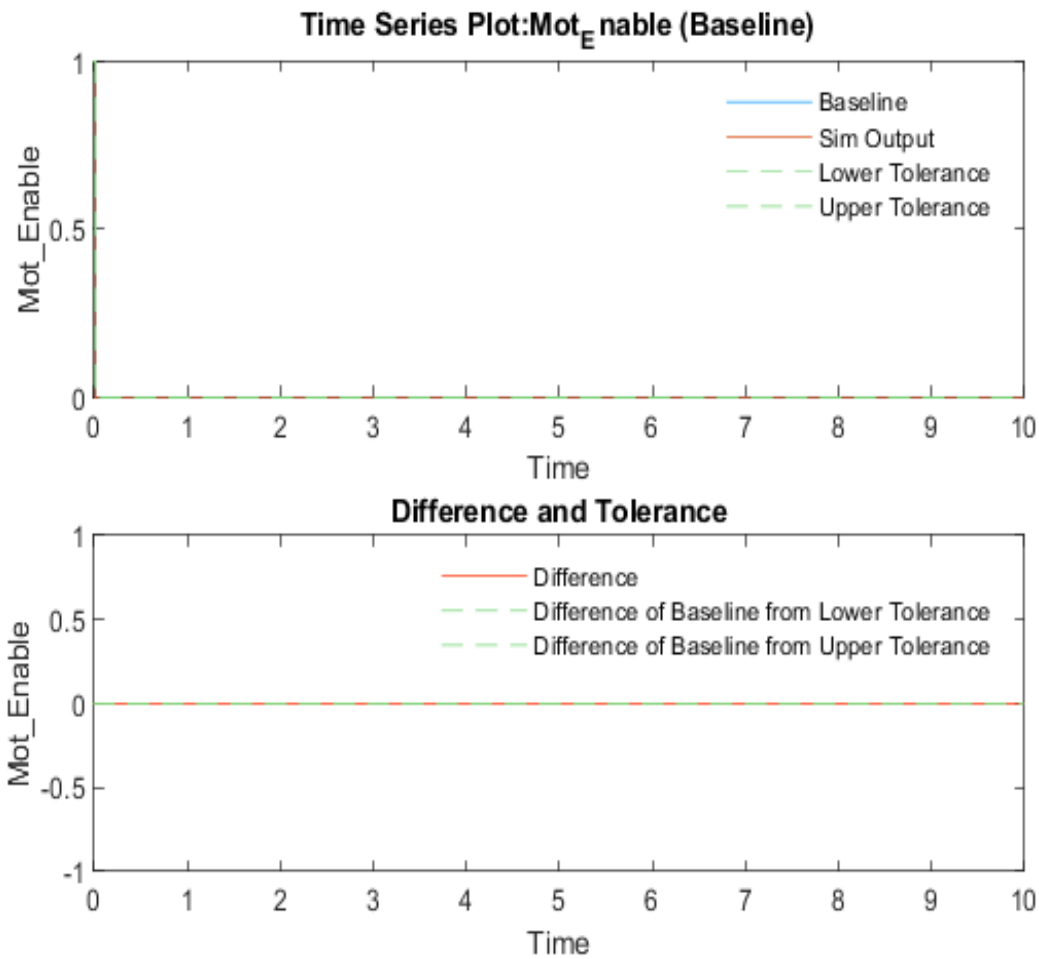
Description: Operation Modes (HEV_PowSupervisory#4)
Document: ../requirements/HEV_PowSupervisory.slreqx

Baseline Comparison

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 Mot_Enable	0	0	0	0	0	double			double		0.001	zoh	union	Link
 Gen_Enable	0	0	0	0	0	double			double		0.001	zoh	union	Link
 ICE_Enable	0	0	0	0	0	double			double		0.001	zoh	union	Link

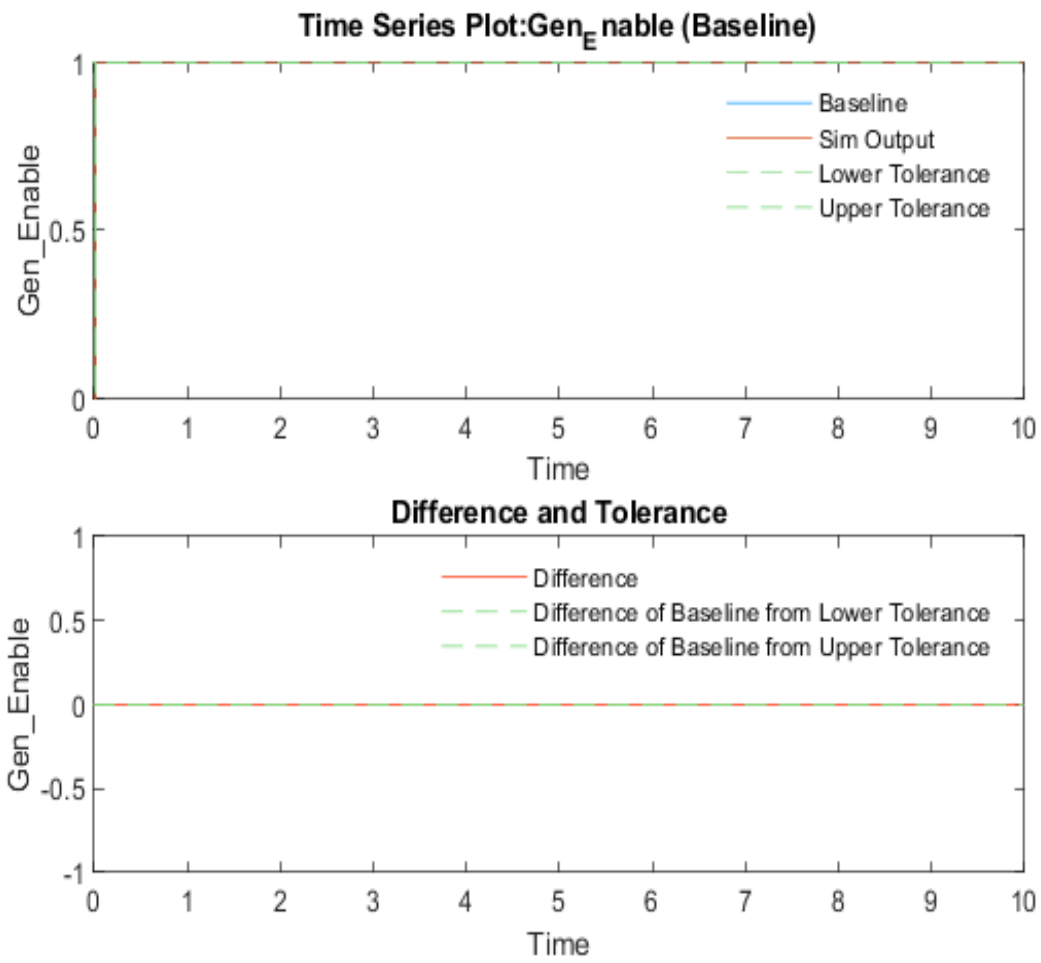
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
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✔ Mot_Enable	0	0	0	0	0	double			double		0.001	zoh	union
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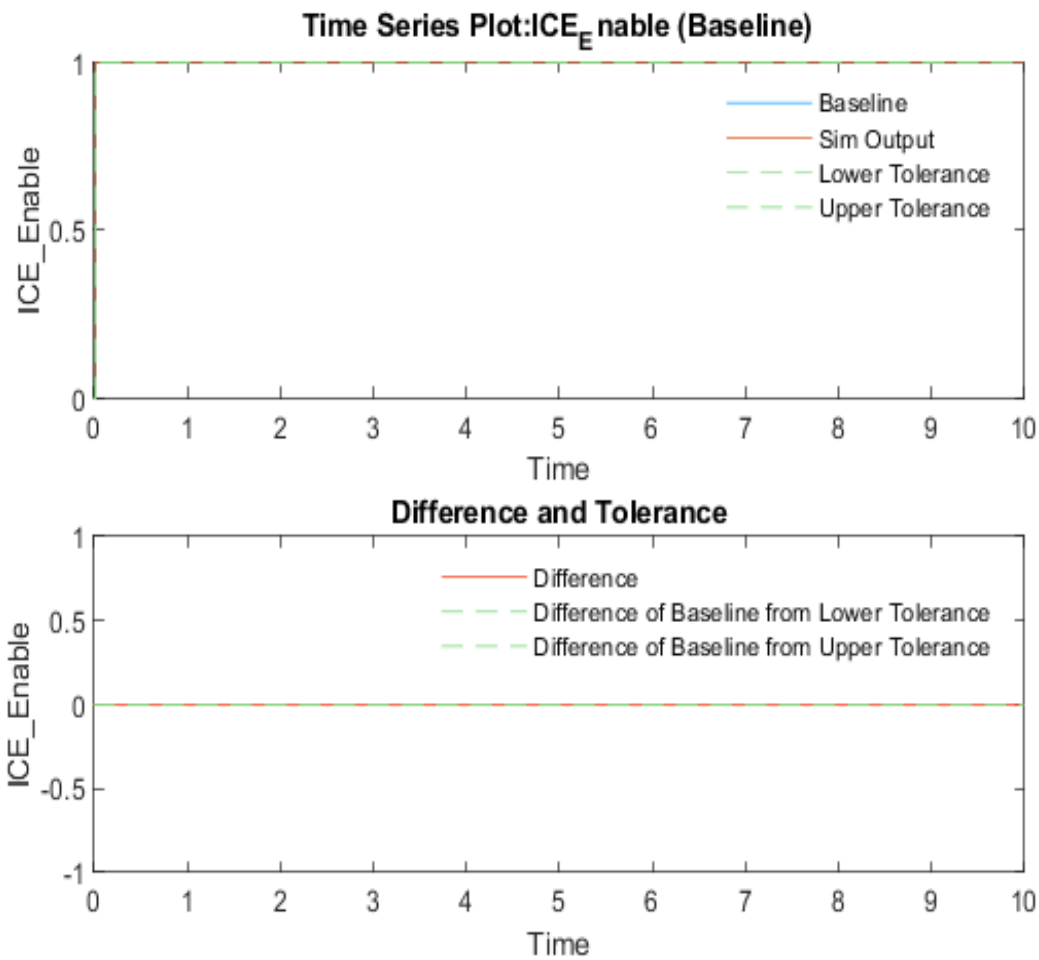
[Back to Report Summary](#)[Back to Criteria Results](#)

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✔ Gen_Enable	0	0	0	0	0	double			double		0.001	zoh	union



[Back to Report Summary](#)[Back to Criteria Results](#)

Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync
✓ ICE_Enable	0	0	0	0	0	double			double		0.001	zoh	union



[Back to Report Summary](#)[Back to Criteria Results](#)

Simulation

System Under Test Information

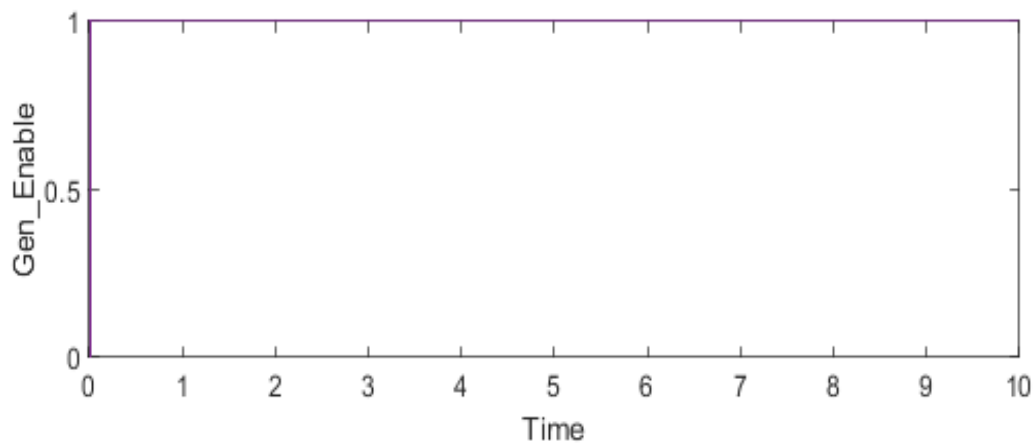
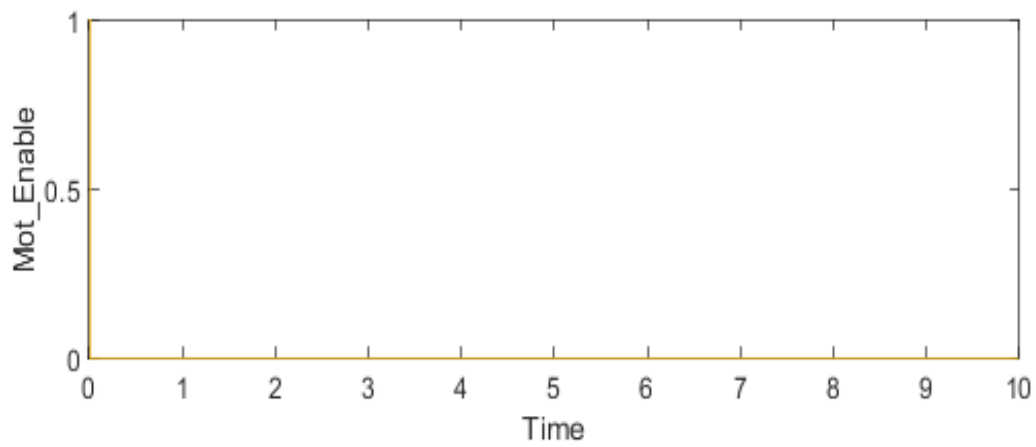
Model:	Mode_Logic_Ex
Harness:	Mode_Logic_Ex_Harness2
Harness Owner:	Mode_Logic_Ex
Release:	Current
Simulation Mode:	normal

Override SIL or PIL Mode: 1
 Configuration Set: ModelReferencing
 External Input Name: ModelLogic_TestScenario.xlsx
 External Input File: C:\Work\Jenkins\MBD_Jenkins\testmngt\testcases\ModelLogic_TestScenario.xlsx
 Start Time: 0
 Stop Time: 10
 Checksum: 2594654103 4143187215 2781615718 2486298153

Simulation Output

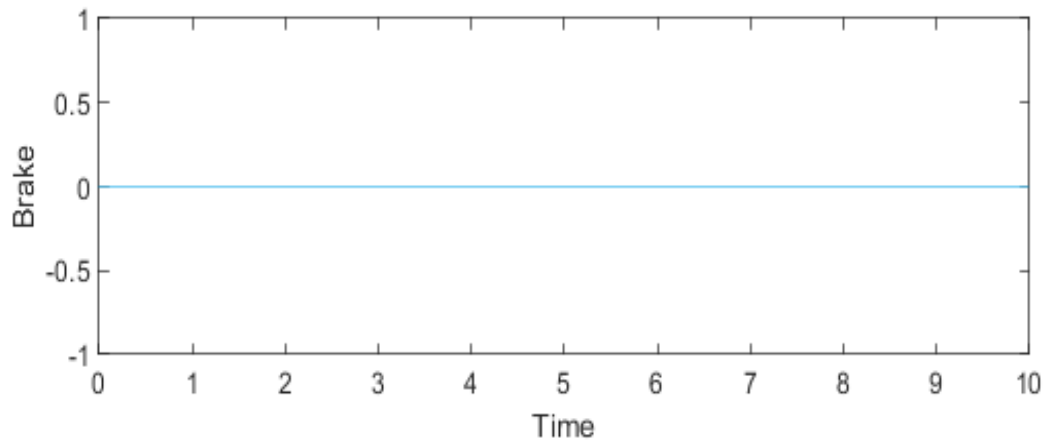
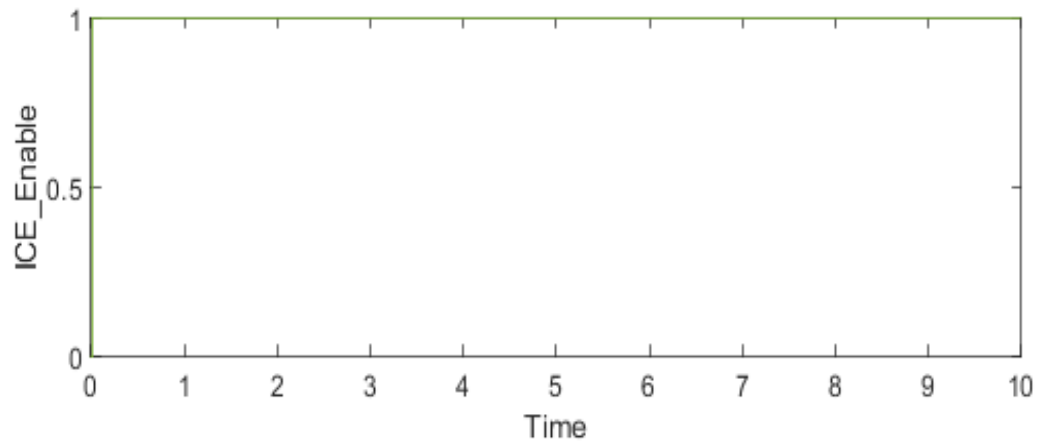
Name	Data Type	Units	Sample Time	Interp	Sync	Link to Plot
Mot_Enable	double		0.001	zoh	union	Link
Gen_Enable	double		0.001	zoh	union	Link
ICE_Enable	double		0.001	zoh	union	Link
Brake	double		0.001	zoh	union	Link
Charge	double		0.001	zoh	union	Link
EngSpeed	double		0.001	zoh	union	Link
Speed	double	km/hr	0.001	zoh	union	Link

Name	Data Type	Units	Sample Time	Interp	Sync
Mot_Enable	double		0.001	zoh	union
Gen_Enable	double		0.001	zoh	union



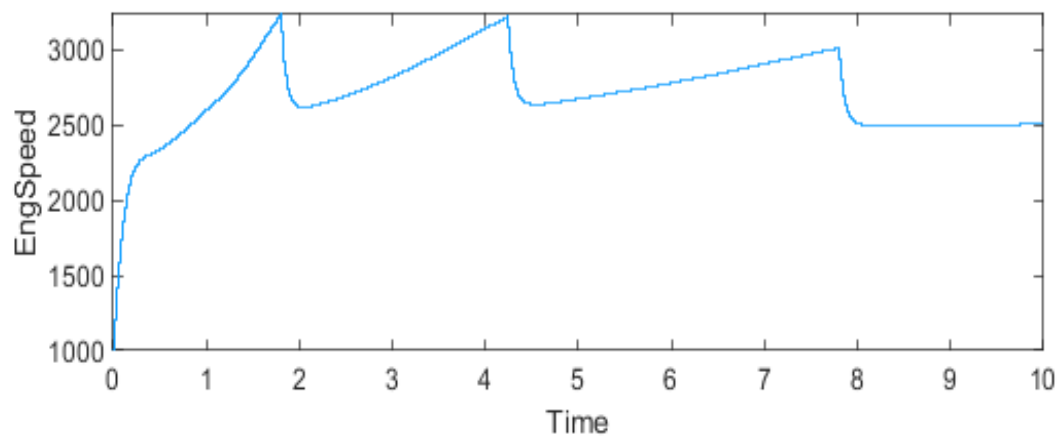
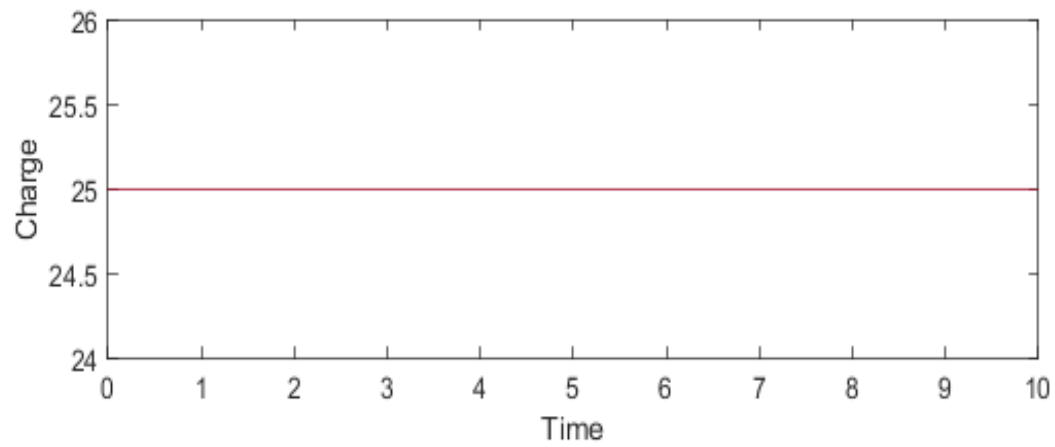
[Back to Report Summary](#)[Back to Signal Summary](#)

Name	Data Type	Units	Sample Time	Interp	Sync
ICE_Enable	double		0.001	zoh	union
Brake	double		0.001	zoh	union



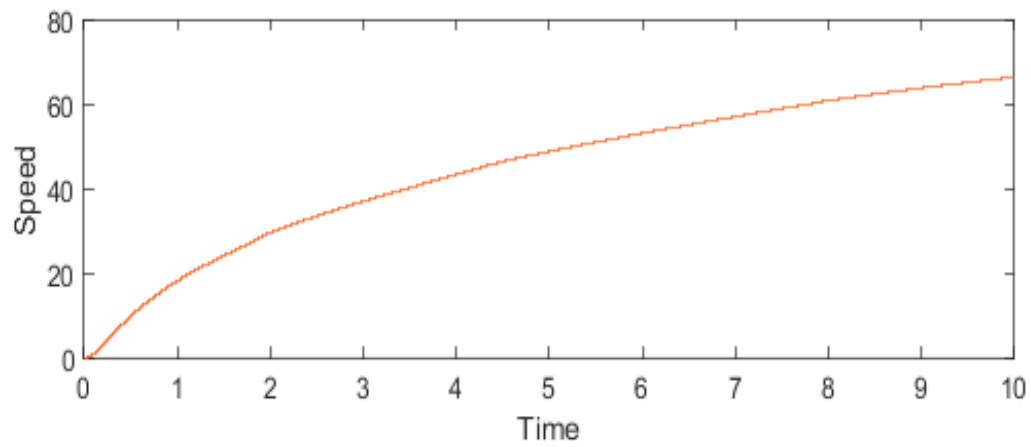
[Back to Report Summary](#)[Back to Signal Summary](#)

Name	Data Type	Units	Sample Time	Interp	Sync
Charge	double		0.001	zoh	union
EngSpeed	double		0.001	zoh	union



[Back to Report Summary](#)[Back to Signal Summary](#)

Name	Data Type	Units	Sample Time	Interp	Sync
Speed	double	km/hr	0.001	zoh	union



[Back to Report Summary](#)[Back to Signal Summary](#)
