

Report Generated by Test Manager

Title: Report_MIL_And_SIL_Testing_Hand_Dry
er_Controller

Author:

Date: 30-Nov-2024 06:51:32

Test Environment

Platform: PCWIN64

MATLAB: (R2024b)



Summary

Name	Outcome	Duration (Seconds)
Results: 2024-Nov-30 06:47:45	6	105.994
MIL_SIL_Comparison	6	102.69
Test_RQ_1		21.046
Test_RQ_2		17.005
Test_RQ_3		15.096
Test_RQ_4		18.877
Test_RQ_5		15.303
Test_RQ_6		14.771

Results: 2024-Nov-30 06:47:45

Result Type: Result Set
Parent: None
Start Time: 30-Nov-2024 06:47:46
End Time: 30-Nov-2024 06:49:32
Outcome: Total: 6, **Passed: 6**

Aggregated Coverage Results

Analyzed Model	Sim Mode	Complexity	Decision	Function	Execution
 hand dryer controller	ModelRefSIL	19	94%	100%	96%
 hand dryer controller	Normal	17	96%	--	--

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MIL_SIL_Comparison

Test Result Information

Result Type: Test Suite Result
Parent: [Results: 2024-Nov-30 06:47:45](#)
Start Time: 30-Nov-2024 06:47:46
End Time: 30-Nov-2024 06:49:29
Outcome: Total: 6, **Passed: 6**

Test Suite Information

Name: MIL_SIL_Comparison
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Test_RQ_1



Test Result Information


Result Type: Test Case Result
Parent: [MIL_SIL_Comparison](#)
Start Time: 30-Nov-2024 06:47:46
End Time: 30-Nov-2024 06:48:07
Outcome: **Passed**

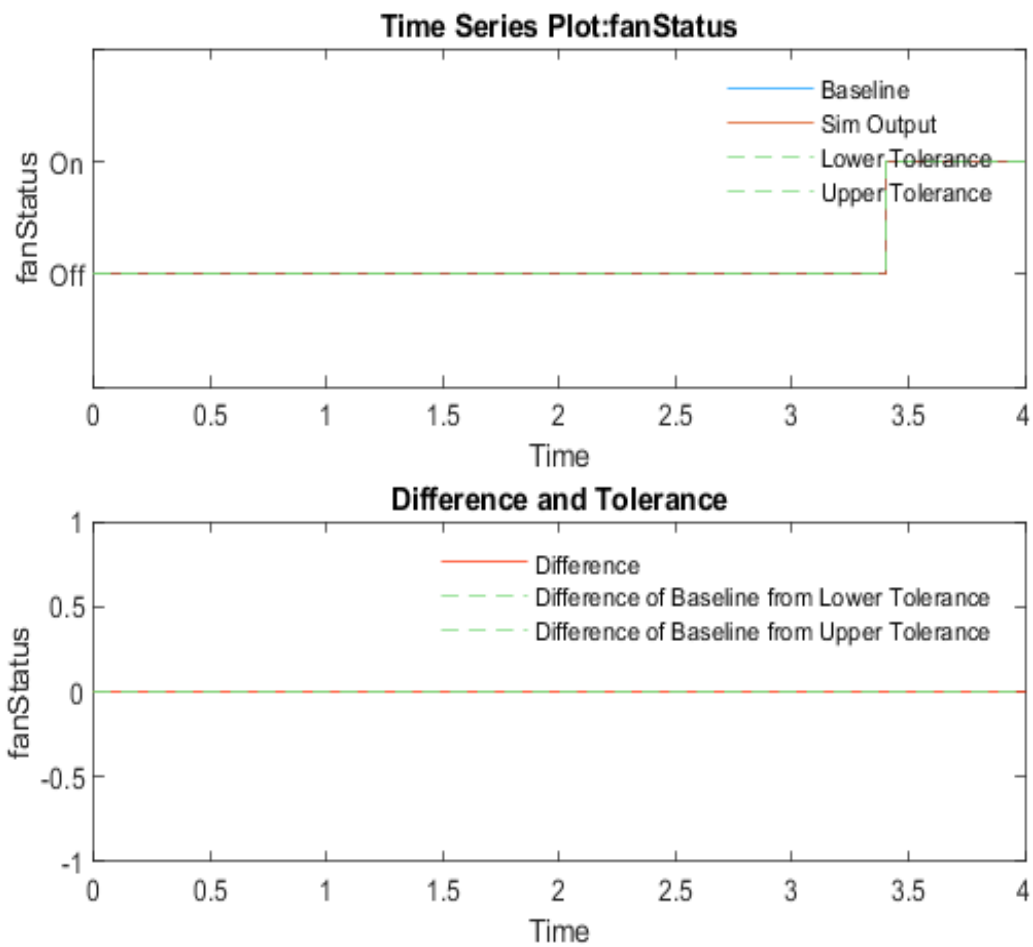
Test Case Information

Name: Test_RQ_1
Type: Equivalence Test

Equivalence Comparison

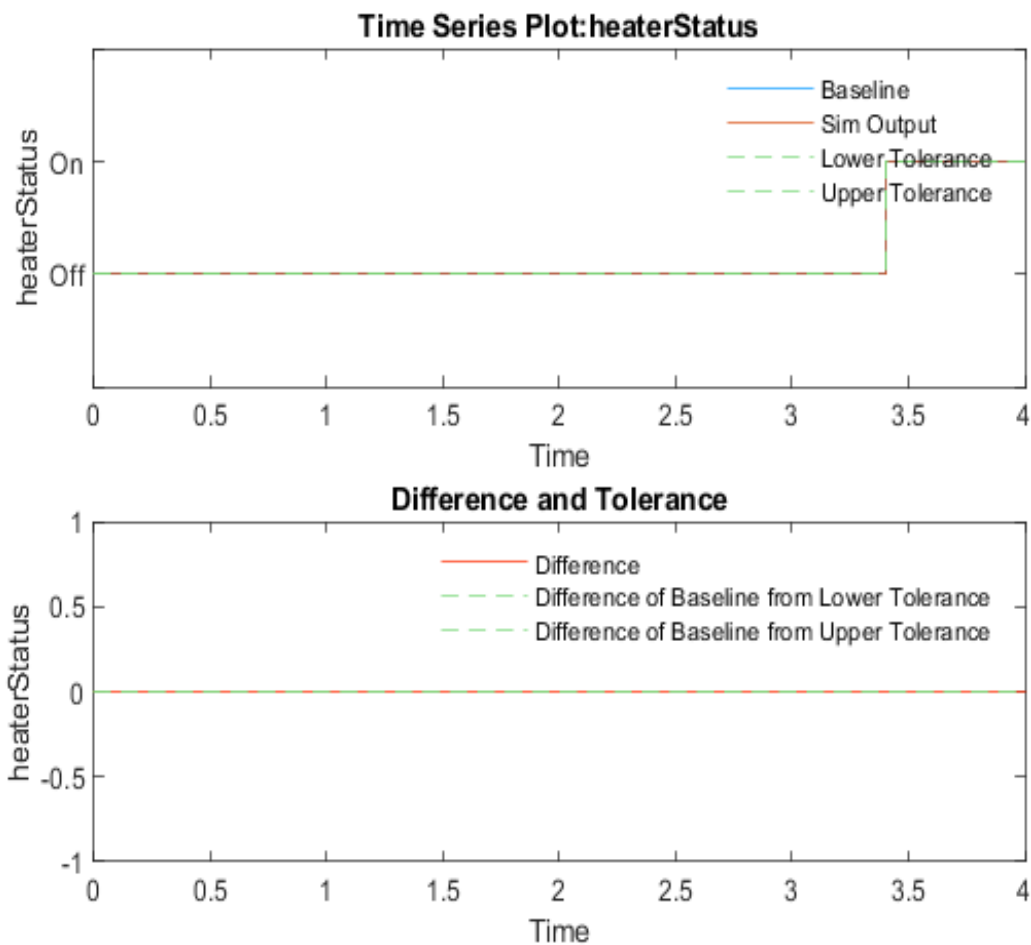
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link
 heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link

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
 fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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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
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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Input Data 1

Input Information

External Input Test_RQ_01

Name:

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-

Simulink\Test_cases_with_baseline_data\Test_RQ_01.xlsx

Input Data 2

Input Information

External Input Name: Test_RQ_01

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_01.xlsx

Simulation 1

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness
Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_01
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_01.xlsx
Start Time:	0
Stop Time:	4
Checksum:	2353064799 2954533367 3861600919 2836330131

Simulation 2

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness

Harness Owner:

Release:

Simulation Mode:

Override SIL or PIL Mode:

Configuration Set:

External Input Name:

External Input File:

Start Time:

Stop Time:

Checksum:

hand_dryer_controller

Current

software-in-the-loop (sil)

0

Configuration1

Test_RQ_01

D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_01.xlsx

0

4

324227176 3860809182 450394346 1459015631

Test_RQ_2

Test Result Information

Result Type:

Parent:

Start Time:

End Time:

Outcome:

Test Case Result

[MIL SIL Comparison](#)

30-Nov-2024 06:48:07

30-Nov-2024 06:48:24

Passed

Test Case Information



Name:

Type:

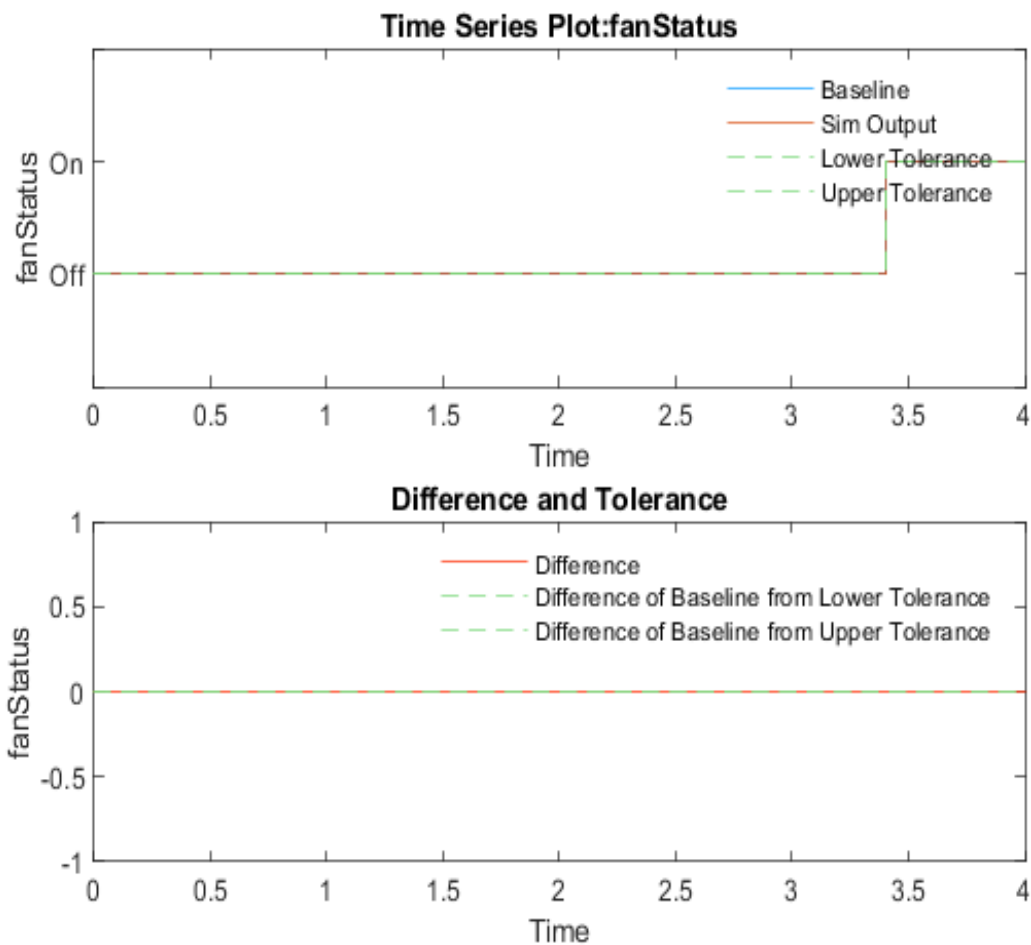
Test_RQ_2

Equivalence Test

Equivalence Comparison

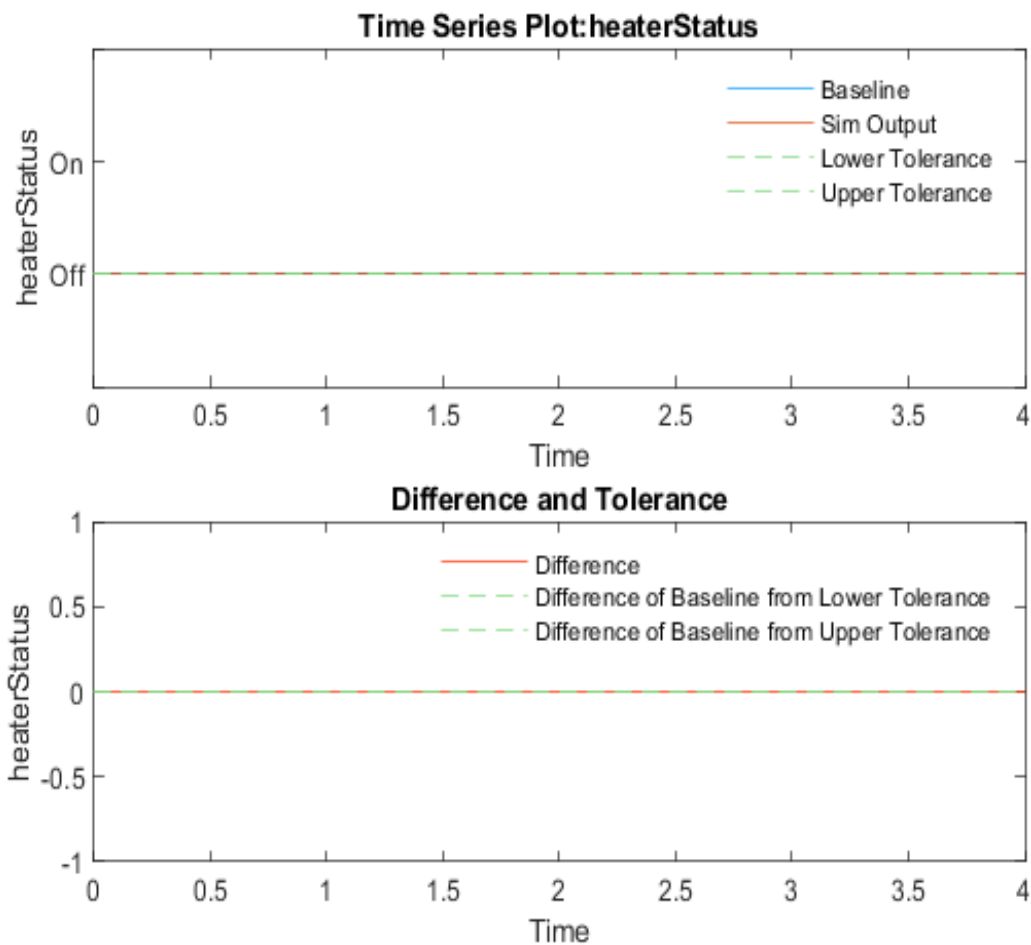
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
 fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link
 heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link

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
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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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
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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Input Data 1

Input Information

External Input Test_RQ_02

Name:

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-

Simulink\Test_cases_with_baseline_data\Test_RQ_02.xlsx

Input Data 2

Input Information

External Input Name: Test_RQ_02

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_02.xlsx

Simulation 1

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness
Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_02
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_02.xlsx
Start Time:	0
Stop Time:	4
Checksum:	2353064799 2954533367 3861600919 2836330131

Simulation 2

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness

Harness Owner: hand_dryer_controller
Release: Current
Simulation Mode: software-in-the-loop (sil)
Override SIL or PIL Mode: 0
Configuration Set: Configuration1
External Input Name: Test_RQ_02
External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_02.xlsx
Start Time: 0
Stop Time: 4
Checksum: 324227176 3860809182 450394346 1459015631

Test_RQ_3

Test Result Information

Result Type: Test Case Result
Parent: [MIL SIL Comparison](#)
Start Time: 30-Nov-2024 06:48:24
End Time: 30-Nov-2024 06:48:39
Outcome: **Passed**

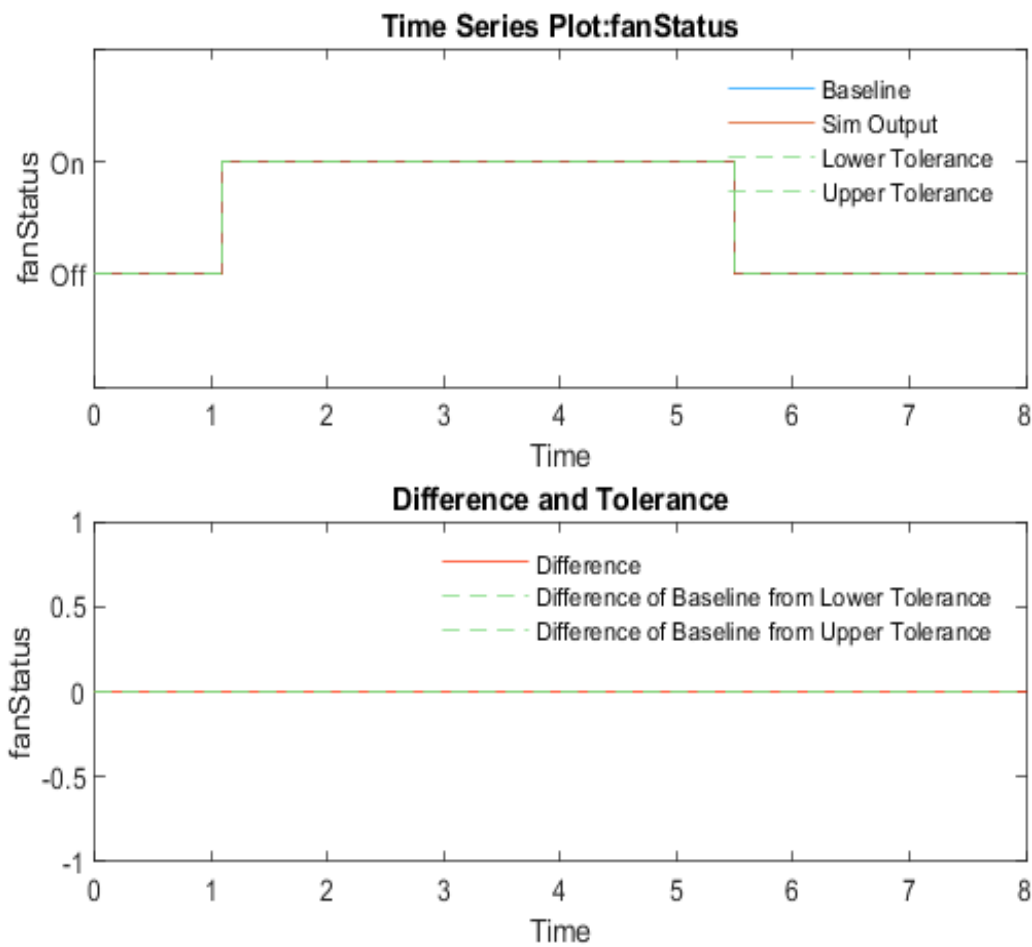
Test Case Information

Name: Test_RQ_3
Type: Equivalence Test

Equivalence Comparison

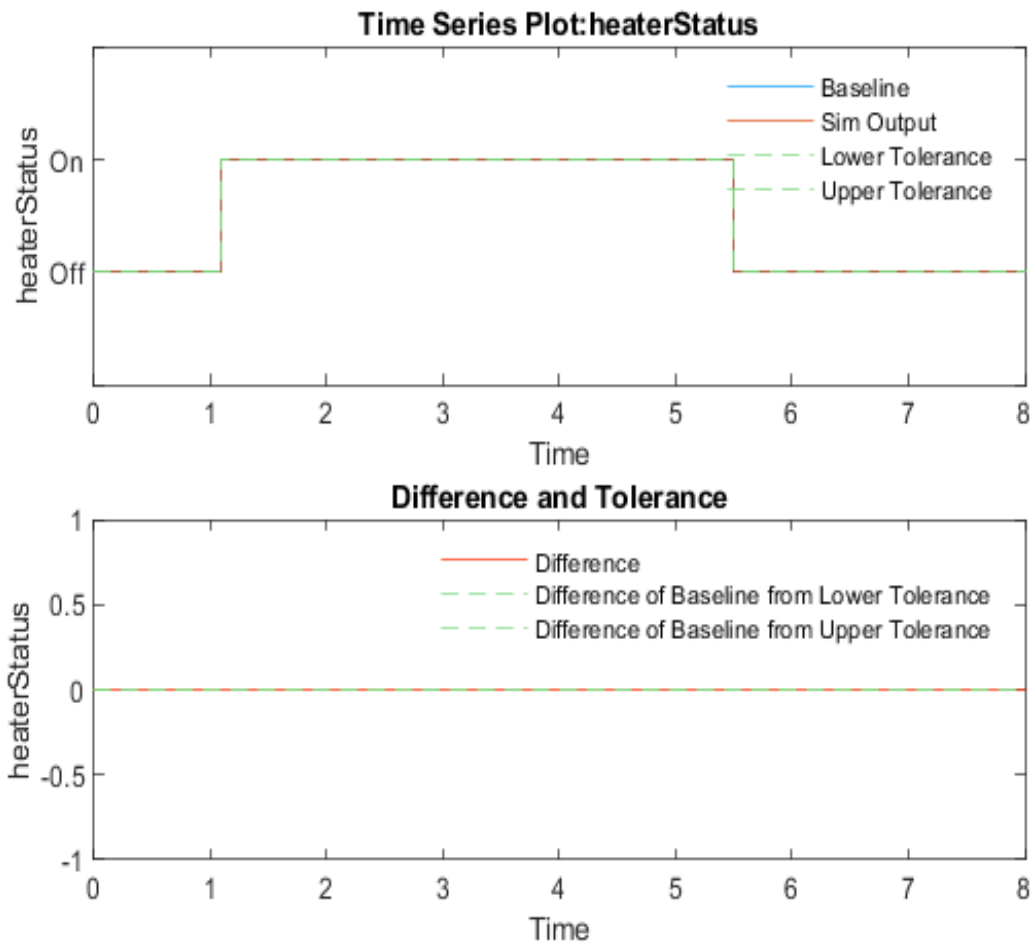
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link

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
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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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
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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Input Data 1

Input Information

External Input Test_RQ_03

Name:

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-

Simulink\Test_cases_with_baseline_data\Test_RQ_03.xlsx

Input Data 2

Input Information

External Input Name: Test_RQ_03

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_03.xlsx

Simulation 1

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness
Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_03
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_03.xlsx
Start Time:	0
Stop Time:	8
Checksum:	1577351135 2717307579 1724448067 11527362

Simulation 2

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness

Harness Owner: hand_dryer_controller
Release: Current
Simulation Mode: software-in-the-loop (sil)
Override SIL or PIL Mode: 0
Configuration Set: Configuration1
External Input Name: Test_RQ_03
External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_03.xlsx
Start Time: 0
Stop Time: 8
Checksum: 467195947 360776196 3936305020 4265456032

Test_RQ_4

Test Result Information

Result Type: Test Case Result
Parent: [MIL SIL Comparison](#)
Start Time: 30-Nov-2024 06:48:40
End Time: 30-Nov-2024 06:48:58
Outcome: **Passed**

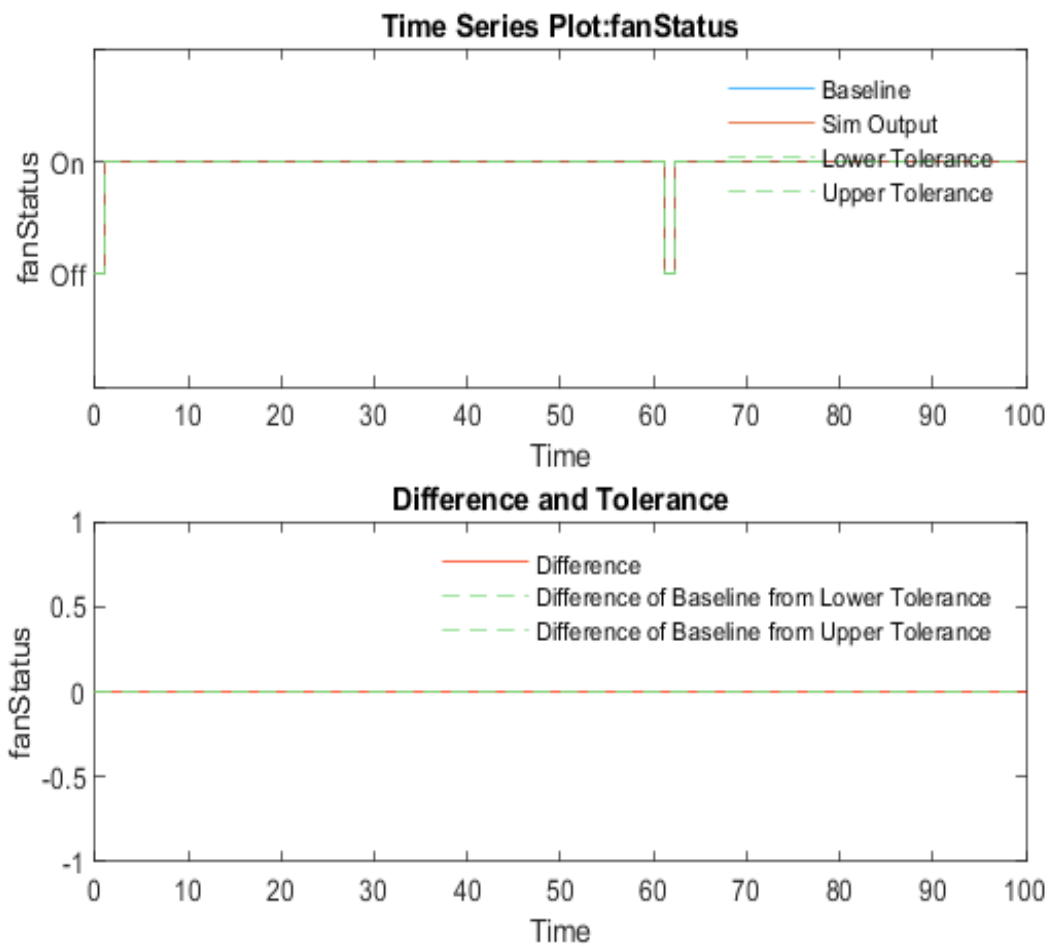
Test Case Information

Name: Test_RQ_4
Type: Equivalence Test

Equivalence Comparison

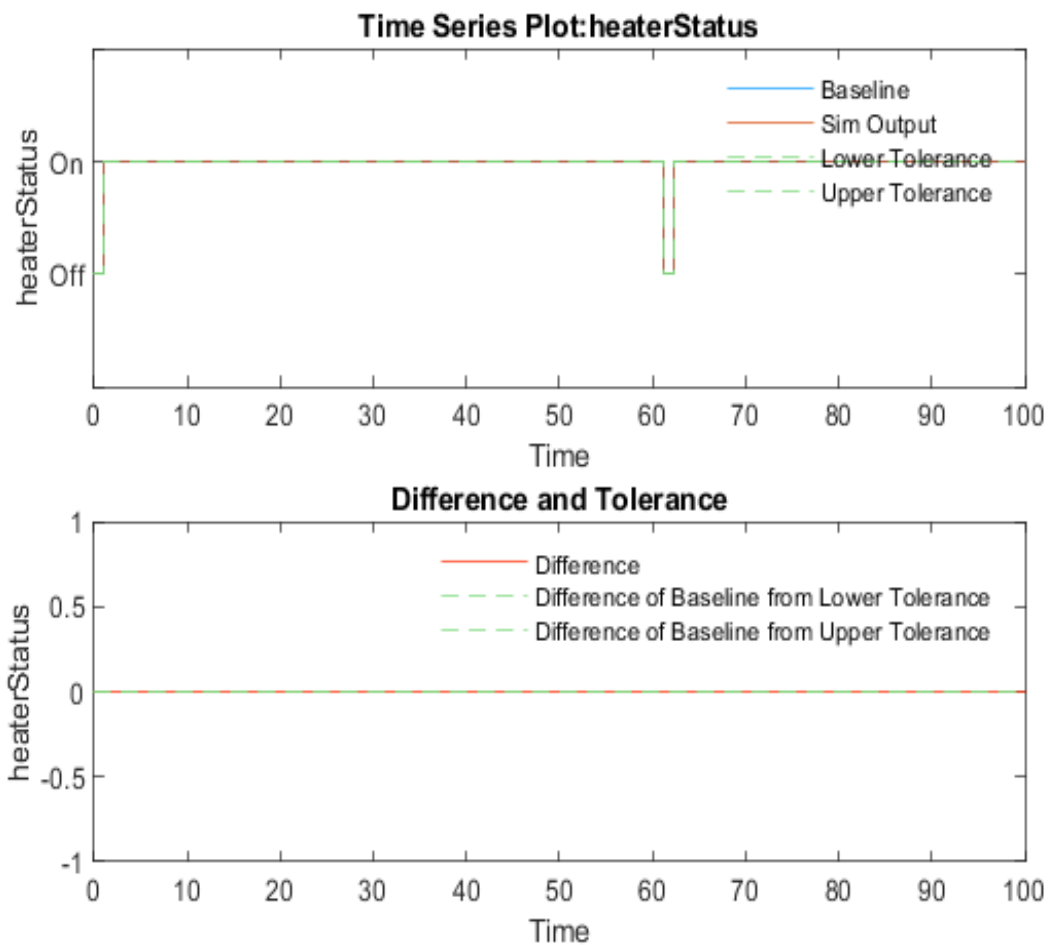
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link

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
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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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
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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Input Data 1

Input Information

External Input Test_RQ_04

Name:

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-

Simulink\Test_cases_with_baseline_data\Test_RQ_04.xlsx

Input Data 2

Input Information

External Input Name: Test_RQ_04

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_04.xlsx

Simulation 1

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness
Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_04
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_04.xlsx
Start Time:	0
Stop Time:	100
Checksum:	2883256488 2379220663 3844408930 4106070509

Simulation 2

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness

Harness Owner: hand_dryer_controller
Release: Current
Simulation Mode: software-in-the-loop (sil)
Override SIL or PIL Mode: 0
Configuration Set: Configuration1
External Input Name: Test_RQ_04
External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_04.xlsx
Start Time: 0
Stop Time: 100
Checksum: 3167365037 3524144320 1787813512 462024106

Test_RQ_5

Test Result Information

Result Type: Test Case Result
Parent: [MIL SIL Comparison](#)
Start Time: 30-Nov-2024 06:48:59
End Time: 30-Nov-2024 06:49:14
Outcome: **Passed**

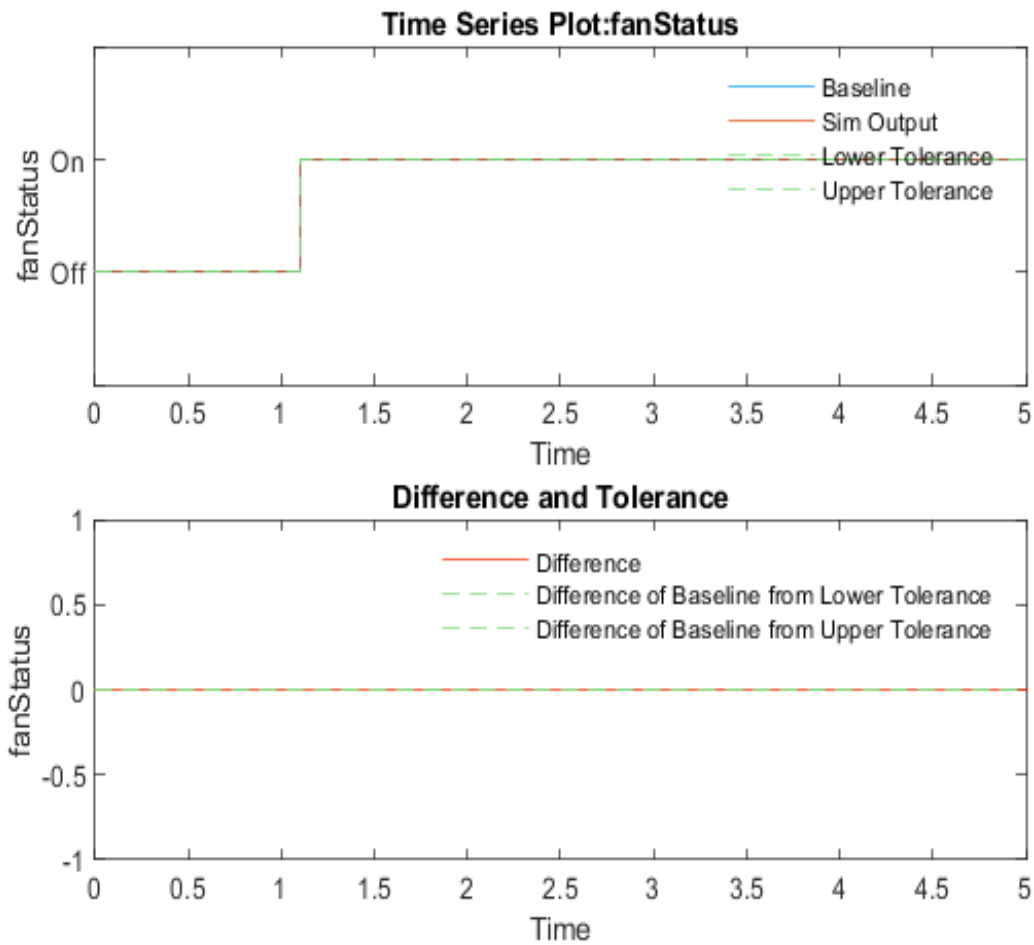
Test Case Information

Name: Test_RQ_5
Type: Equivalence Test

Equivalence Comparison

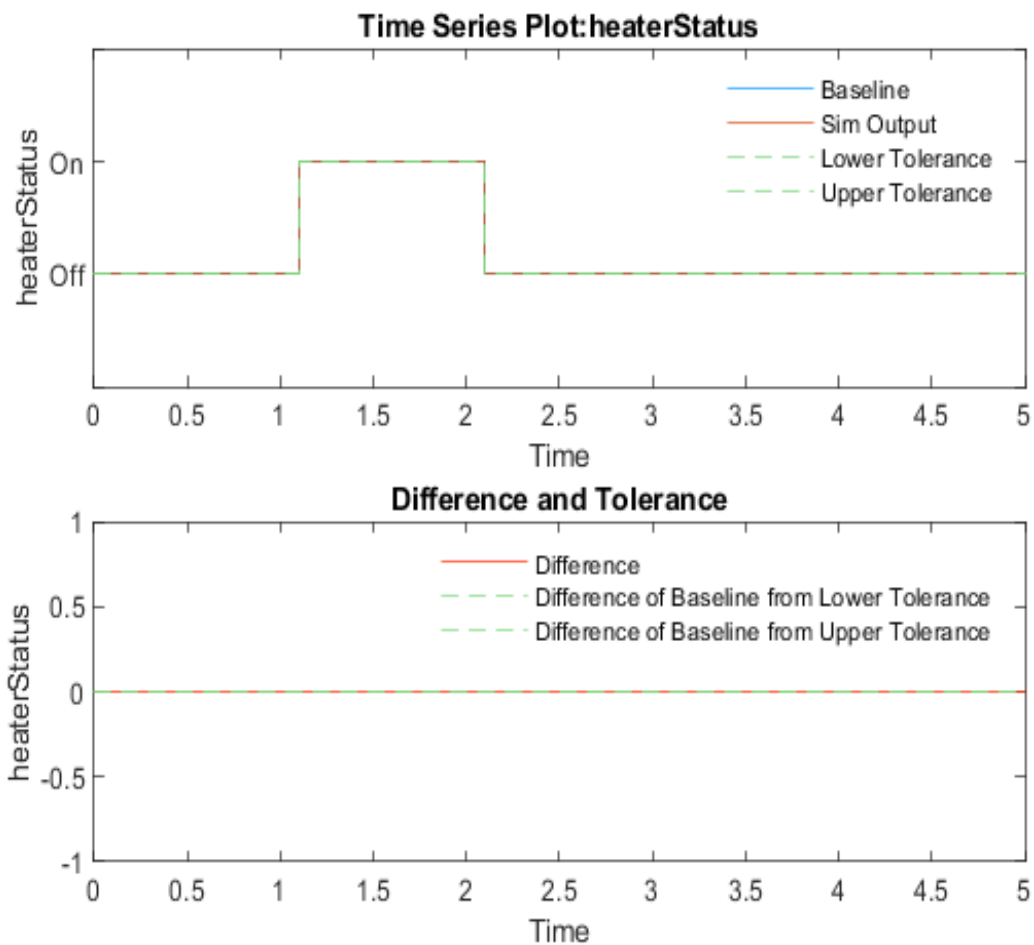
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link

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
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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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
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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Input Data 1

Input Information

External Input Test_RQ_05

Name:

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-

Simulink\Test_cases_with_baseline_data\Test_RQ_05.xlsx

Input Data 2

Input Information

External Input Name: Test_RQ_05

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_05.xlsx

Simulation 1

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness
Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_05
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_05.xlsx
Start Time:	0
Stop Time:	5
Checksum:	3130275151 781365427 899538858 182071976

Simulation 2

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness

Harness Owner: hand_dryer_controller
Release: Current
Simulation Mode: software-in-the-loop (sil)
Override SIL or PIL Mode: 0
Configuration Set: Configuration1
External Input Name: Test_RQ_05
External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_05.xlsx
Start Time: 0
Stop Time: 5
Checksum: 857983338 1161988359 2365043898 2448926412

Test_RQ_6

Test Result Information

Result Type: Test Case Result
Parent: [MIL SIL Comparison](#)
Start Time: 30-Nov-2024 06:49:14
End Time: 30-Nov-2024 06:49:29
Outcome: **Passed**

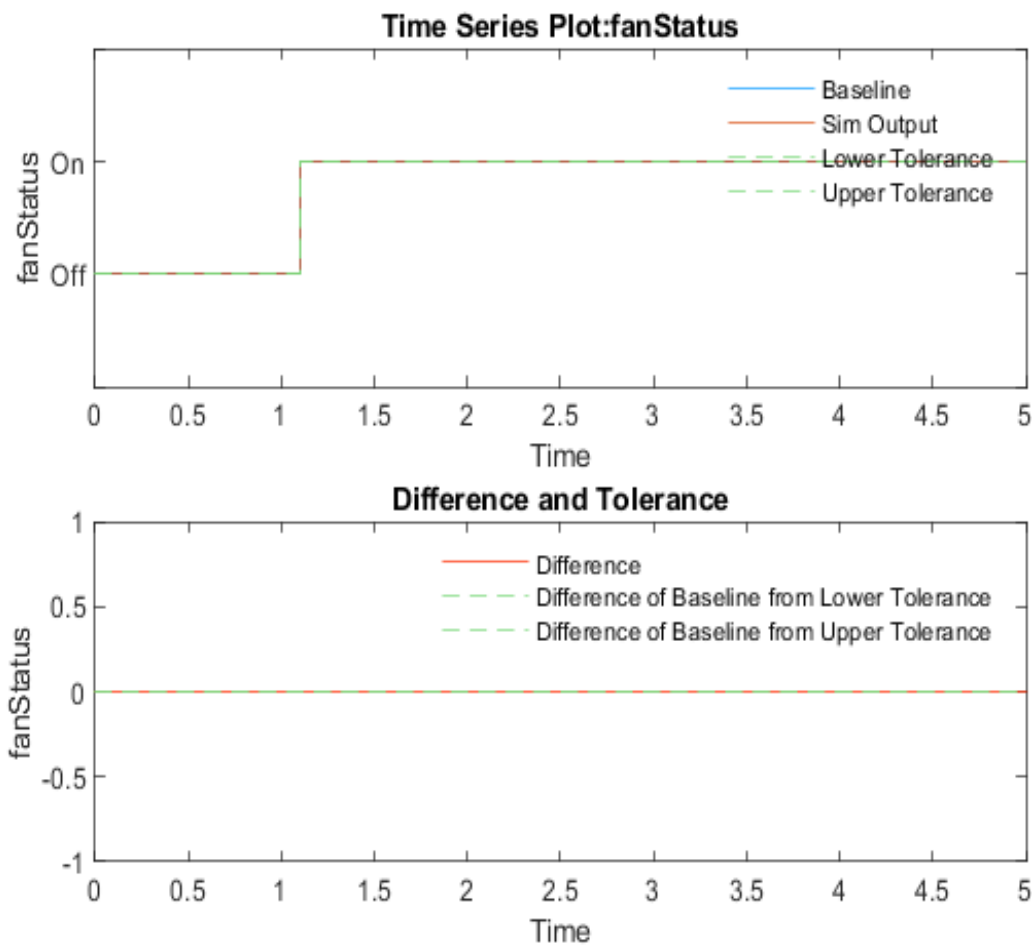
Test Case Information

Name: Test_RQ_6
Type: Equivalence Test

Equivalence Comparison

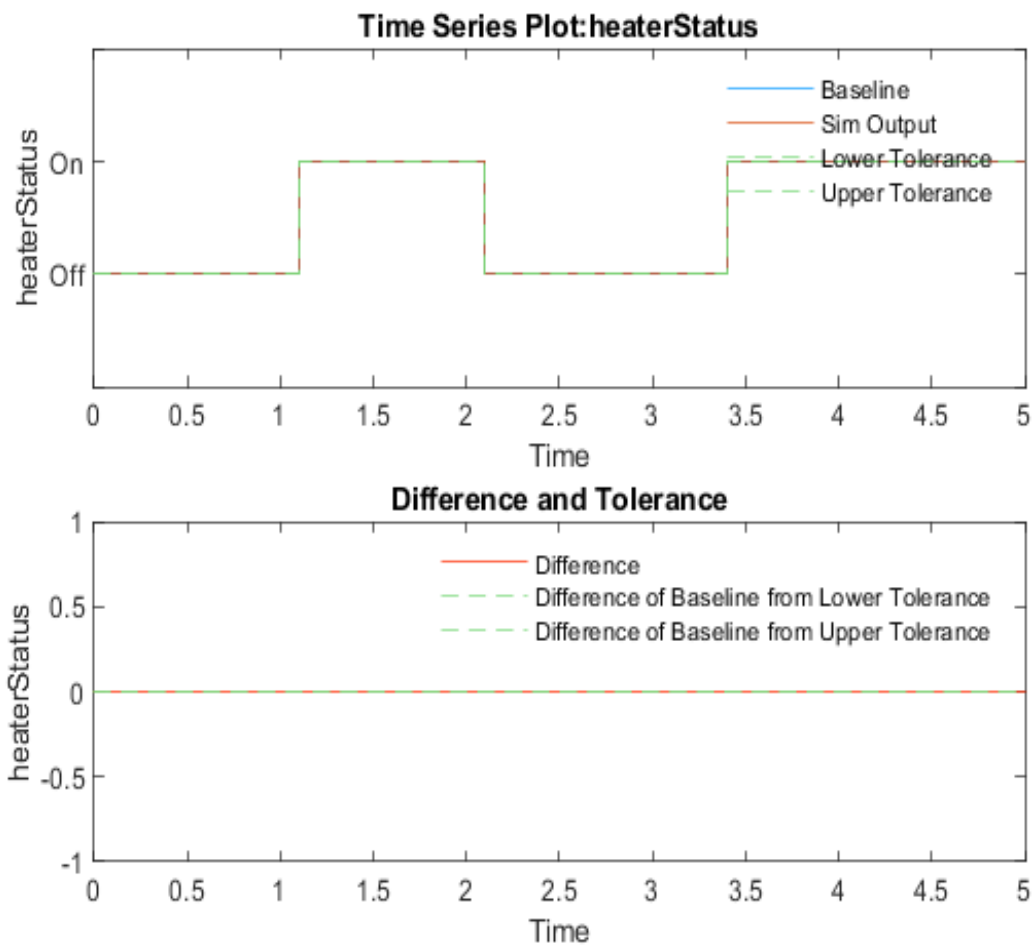
Name	Abs Tol	Rel Tol	Lead Tol	Lag Tol	Max Diff	Data Type 1	Units 1	Sample Time 1	Data Type 2	Units 2	Sample Time 2	Interp	Sync	Link to Plot
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union	Link

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
✓ fanStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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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
✓ heaterStatus	0	0	0	0	0	OnOffEnum		0.1	OnOffEnum		0.1	zoh	union



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Input Data 1

Input Information

External Input Test_RQ_06

Name:

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-

Simulink\Test_cases_with_baseline_data\Test_RQ_06.xlsx

Input Data 2

Input Information

External Input Name: Test_RQ_06

External Input File: D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_06.xlsx

Simulation 1

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness
Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	normal
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_06
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_06.xlsx
Start Time:	0
Stop Time:	5
Checksum:	3130275151 781365427 899538858 182071976

Simulation 2

System Under Test Information

Model:	hand_dryer_controller
Harness:	hand_dryer_controller_Harness

Harness Owner:	hand_dryer_controller
Release:	Current
Simulation Mode:	software-in-the-loop (sil)
Override SIL or PIL Mode:	0
Configuration Set:	Configuration1
External Input Name:	Test_RQ_06
External Input File:	D:\MATLAB_Projects\Hand-Dryer-Controller-Model-Using-Simulink\Test_cases_with_baseline_data\Test_RQ_06.xlsx
Start Time:	0
Stop Time:	5
Checksum:	857983338 1161988359 2365043898 2448926412