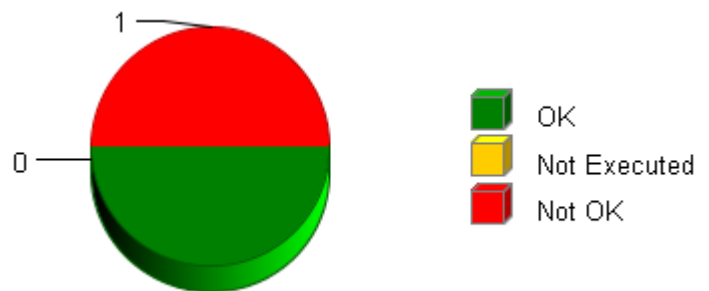


## Summary

Total Test Objects: 2  
Successful: 1  
Failed: 1  
Not Executed: 0  
Date: 2016-09-30  
Time: 17:35:29+0530

## Overall Test Object Results (including Coverage)



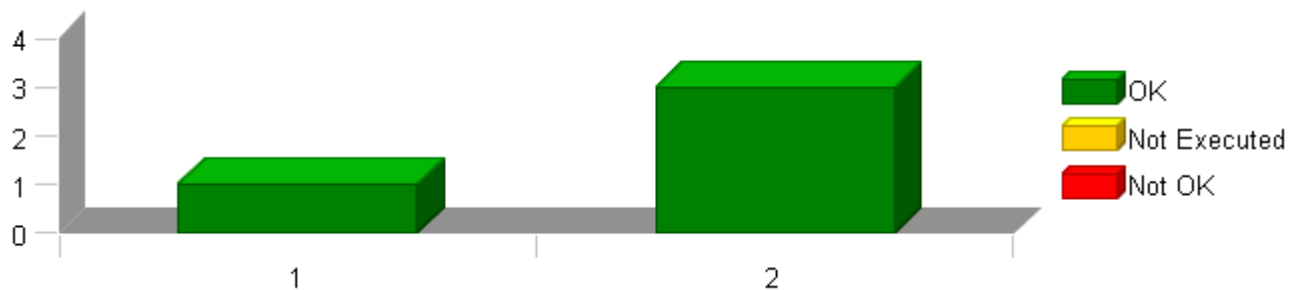
## Selected Project Items

Test Object "CBD\_UnitTest/TqRsDg/TqRsDg\_Init1"  
Test Object "CBD\_UnitTest/TqRsDg/TqRsDg\_Per1"

## Used Test Environments

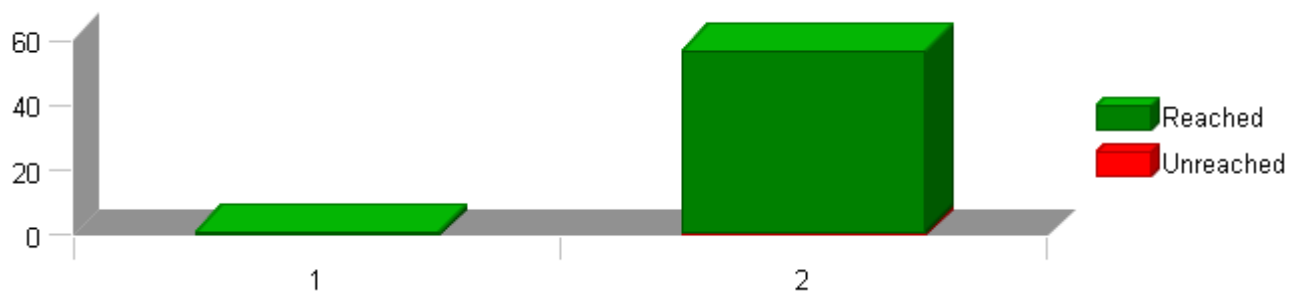
TI TMS 570 PLS UDE (Default)

## Test Case Results for Each Test Object (without Coverage)



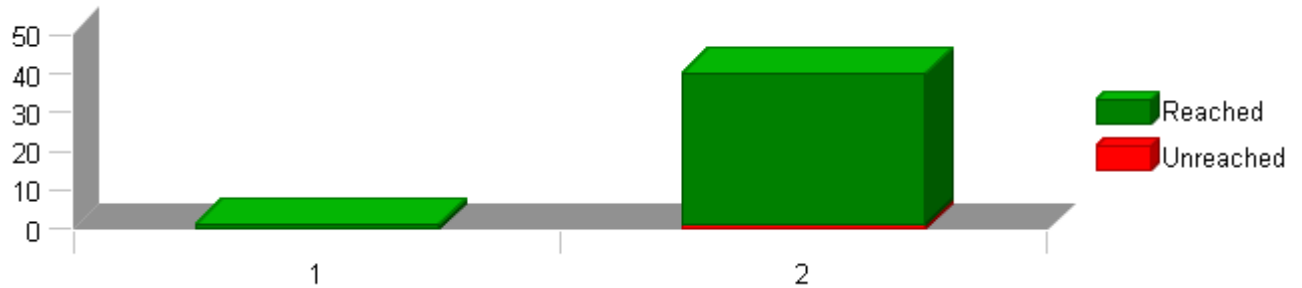
The table above shows each test object on the x axis and the number of test cases of the respective test object on the y axis. Each bar is divided into passed, not executed and failed test cases. The test case results do not take into account any coverage result (i.e. if all test cases of a test object are passed in this table but the coverage is failed, the overall test object result will be failed).

## Statement (C0) Coverage: Total Statements for Each Test Object



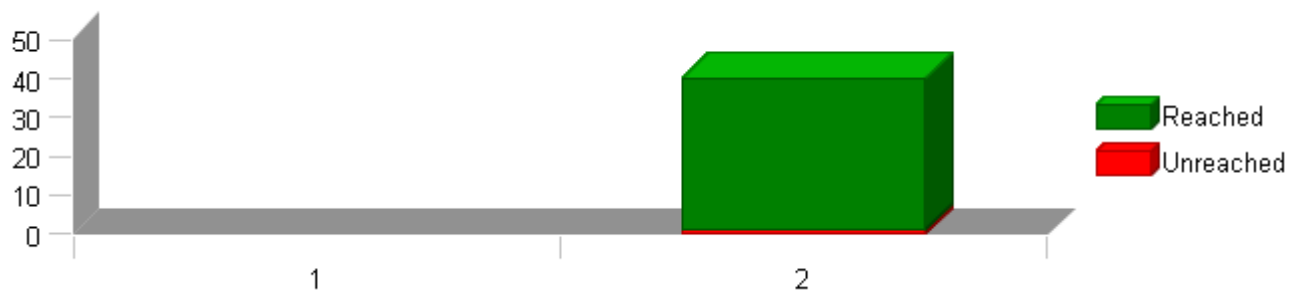
The table above shows each test object on the x axis and the number of statements of the respective test object on the y axis. Each bar is divided into reached statements (i.e. statements that have been executed during the test) and unreached statements.

### Branch (C1) Coverage: Total Branches for Each Test Object



The table above shows each test object on the x axis and the number of branches of the respective test object on the y axis. Each bar is divided into reached branches (i.e. branches that have been executed during the test) and unreached branches.

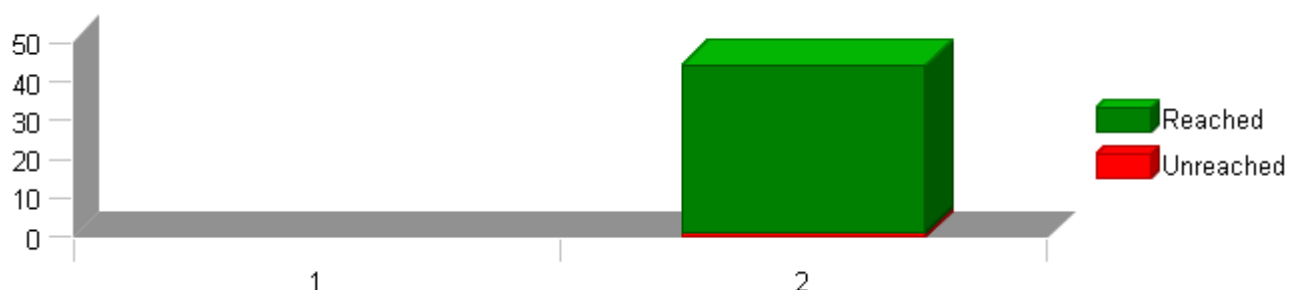
### Decision Coverage: Total Decision Outcomes for Each Test Object



The table above shows test objects on the x axis and the number of possible outcomes of all decisions of the respective test object on the y axis. To achieve full DC coverage, each decision must evaluate to both true and false.

Each bar is divided into reached and unreached decision outcomes.

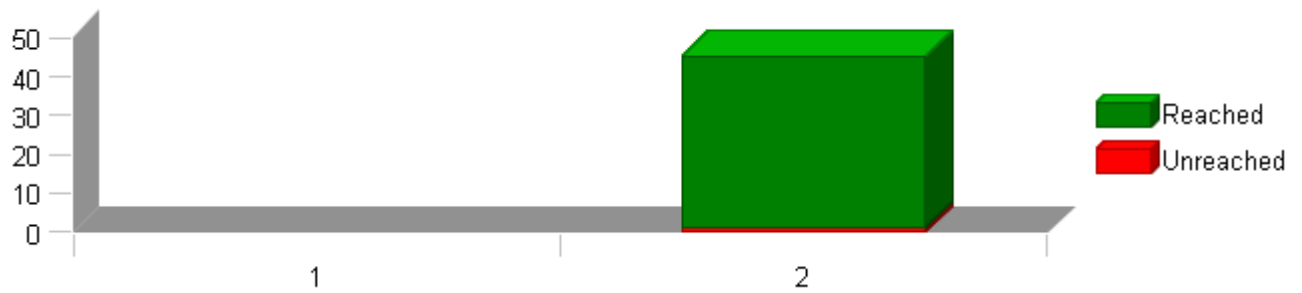
### MC/DC Coverage: Total Condition Combinations for Each Test Object



The table above shows test objects on the x axis and the number of condition combinations of all decisions of the respective test object on the y axis. The number of condition combinations is based on the number of boolean conditions within each decision of the test object. To achieve full MC/DC coverage, each decision requires all contained atomic conditions to evaluate to both true and false independently of all other conditions. The cumulated number of rows within such tables of condition combinations is what is displayed in this table.

Each bar is divided into reached condition combinations (i.e. combinations of boolean condition values that have been executed during the test) and unreached condition combinations.

## MCC Coverage: Total Condition Combinations for Each Test Object



The table above shows test objects on the x axis and the number of condition combinations of all decisions of the respective test object on the y axis. The number of condition combinations is based on the number of boolean conditions within each decision of the test object. To achieve full MCC coverage, each decision requires all contained atomic conditions to evaluate to all possible combinations of true and false values. The cumulated number of rows within such tables of condition combinations is what is displayed in this table.

Each bar is divided into reached condition combinations (i.e. combinations of boolean condition values that have been executed during the test) and unreached condition combinations.

## Test Object List

The following table lists all test objects with their test case and coverage results. The cumulated results for modules, folders and test collections are also displayed, the indentation within the name column indicates the parent relationship of the elements.

Please note that only test objects are numbered within the first column. This number is referenced on the x axis within the overview charts for test case and coverage results available on previous pages (if included into the report).

No.	Name	C0	C1	DC	MC/DC	MCC	Test Cases	Result
	TqRsDg_SF31	98.27 %	97.56 %	97.5 %	97.72 %	97.77 %	4 of 4 passed	✘
	CBD_UnitTest	98.27 %	97.56 %	97.5 %	97.72 %	97.77 %	4 of 4 passed	✘
	TqRsDg	98.27 %	97.56 %	97.5 %	97.72 %	97.77 %	4 of 4 passed	✘
1	<a href="#">TqRsDg_Init1</a>	100 %	100 %	-	-	-	1 of 1 passed	✔
2	<a href="#">TqRsDg_Per1</a>	98.24 %	97.5 %	97.5 %	97.72 %	97.77 %	3 of 3 passed	✘

# TEST DETAILS REPORT

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TqRsDg\_Init1



Project	TqRsDg_SF31
Module	TqRsDg
Test Object	TqRsDg_Init1

## Instrumentation: Test Object Only

Statement (C0) Coverage	100 %
Branch (C1) Coverage	100 %

## Statistics

Total Testcases	1
Successful	1 ✓
Failed	0
Not Executed	0

## Module Properties

Project Root Directory	D:\Synergy_Work_Area\TqRsDg_SF
Configuration File	D:\Synergy_Work_Area\TqRsDg_SF\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	\$(PROJECTROOT)\TqRsDg\src\Ap_TqRsDg.c
Compiler Options	-D_DATA_ACCESS=-D_Static=-Dconst=-I\$(PROJECTROOT)\TqRsDg\utp\contract\Ap_TqRsDg -I\$(PROJECTROOT)\TqRsDg\utp\contract -I\$(PROJECTROOT)\NtrlLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(Compiler Install Path)\include

## Comments/Description/Specification

Name	Text
Module 'TqRsDg'	*****Unit Test Information***** Name of Tester:Deepa Agrawal Code File(s) Under Test:Ap_TqRsDg.c Code File(s) Version:8 Module Design Document:TorqueReasonableDiagnostics.MDD Module Design Document Version:9 Data Dictionary Version:9 Unit Test Plan Version:5 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.32 Total FLASH Used (Bytes):1066 Total RAM Used (Bytes):40 Total CALS Used (Bytes):76 Special Test Requirements:NA Test Date:9/30/2016 Comments: "Note1:Inline function defined in globalmacro.h is not unit tested. Note2: CBD_Sandbox_dbg.map is embedded in UTP for reference. Note 3:In Function "TqRsDg_Per1", 100% Path coverage can not be achieved due to Limit_m function at src line 823 To make condition "(MtrCurldptSig_Cnt_T_u08 >= D_TWO_CNT_U08)==> True" value of variable "MtrCurldptSig_Cnt_T_u08" should be >=2." *****

Attributes	
Name	Value
Compiler Install Path	\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_Ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 4.4
Time Unit	cycles
Timer Enabled	false
Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg

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TqRsDg\_Init1



Attributes	
Name	Value
Workspace File	D:\Synergy_Work_Area\TqRsDg_SF31_006\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

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TqRsDg\_Init1



## Test Case 1: Range Test

**Specification** "Performance Metrics (With ""None"" Instrumentation and ""WithPS"" Environment)

CPU Cycles:

TS 1.1 1940.00 Cycles  
TS 1.2 1935.00 Cycles  
TS 1.3 1935.00 Cycles  
TS 1.4 1935.00 Cycles  
TS 1.5 1935.00 Cycles  
TS 1.6 1935.00 Cycles  
TS 1.7 1935.00 Cycles  
TS 1.8 1935.00 Cycles  
TS 1.9 1935.00 Cycles  
TS 1.10 1935.00 Cycles

**Description** Vector Description:

TS1.1All Min  
TS1.2All Max  
TS1.3k\_CurrDiagPrimLPFKn\_Hz\_f32 = min  
TS1.4k\_CurrDiagPrimLPFKn\_Hz\_f32 = max  
TS1.5k\_CurrDiagPrimLPFKn\_Hz\_f32=Default  
TS1.6k\_CurrDiagPrimLPFKn\_Hz\_f32 = mid  
TS1.7k\_CurrDiagSecLPFKn\_Hz\_f32 = min  
TS1.8k\_CurrDiagSecLPFKn\_Hz\_f32 = max  
TS1.9k\_CurrDiagSecLPFKn\_Hz\_f32=Default  
TS1.10k\_CurrDiagSecLPFKn\_Hz\_f32 = mid

### Test Step 1.1 (Repeat Count = 1)

Name	Input Value			
k_CurrDiagPrimLPFKn_Hz_f32	0			
k_CurrDiagSecLPFKn_Hz_f32	0			
Name	Actual Value	Expected Value	Result	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓	

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

### Test Step 1.2 (Repeat Count = 1)

Name	Input Value			
k_CurrDiagPrimLPFKn_Hz_f32	250			
k_CurrDiagSecLPFKn_Hz_f32	250			
Name	Actual Value	Expected Value	Result	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓	

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

### Test Step 1.3 (Repeat Count = 1)

Name	Input Value			
k_CurrDiagPrimLPFKn_Hz_f32	0			
k_CurrDiagSecLPFKn_Hz_f32	124.5			
Name	Actual Value	Expected Value	Result	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	

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TqRsDg\_Init1

Name	Actual Value	Expected Value	Result
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.790810168	0.790810168 ± 0.00000009	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.790810168	0.790810168 ± 0.00000009	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.4 (Repeat Count = 1)

Name	Input Value
k_CurrDiagPrimLPFKn_Hz_f32	250
k_CurrDiagSecLPFKn_Hz_f32	97.4000015

Name	Actual Value	Expected Value	Result
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.705937982	0.705937982 ± 0.00000009	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.705937982	0.705937982 ± 0.00000009	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.5 (Repeat Count = 1)

Name	Input Value
k_CurrDiagPrimLPFKn_Hz_f32	1
k_CurrDiagSecLPFKn_Hz_f32	98.4000015

Name	Actual Value	Expected Value	Result
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0124877691	0.012487743 ± 0.00000009	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.709610105	0.709610105 ± 0.00000009	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0124877691	0.012487743 ± 0.00000009	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.709610105	0.709610105 ± 0.00000009	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.6 (Repeat Count = 1)

Name	Input Value
k_CurrDiagPrimLPFKn_Hz_f32	100.199997
k_CurrDiagSecLPFKn_Hz_f32	75.0999985

Name	Actual Value	Expected Value	Result
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.716104865	0.716104865 ± 0.00000009	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.610828221	0.610828221 ± 0.00000009	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.716104865	0.716104865 ± 0.00000009	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.610828221	0.610828221 ± 0.00000009	✓



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TqRsDg\_Init1



T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.7 (Repeat Count = 1)

Name	Input Value			
k_CurrDiagPrimLPFKn_Hz_f32	123.599998			
k_CurrDiagSecLPFKn_Hz_f32	0			
Name	Actual Value	Expected Value	Result	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.78843087	0.78843087 ± 0.00000009	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.78843087	0.78843087 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0	0 ± 0.000009	✓	

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.8 (Repeat Count = 1)

Name	Input Value			
k_CurrDiagPrimLPFKn_Hz_f32	98.6999969			
k_CurrDiagSecLPFKn_Hz_f32	250			
Name	Actual Value	Expected Value	Result	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.710702837	0.710702837 ± 0.00000009	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.710702837	0.710702837 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096	0.956786096 ± 0.00000009	✓	

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.9 (Repeat Count = 1)

Name	Input Value			
k_CurrDiagPrimLPFKn_Hz_f32	99.6999969			
k_CurrDiagSecLPFKn_Hz_f32	1			
Name	Actual Value	Expected Value	Result	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.714315534	0.714315474 ± 0.00000009	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0124877691	0.012487743 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.714315534	0.714315474 ± 0.00000009	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0124877691	0.012487743 ± 0.00000009	✓	

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

# TEST DETAILS REPORT

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TqRsDg\_Init1



## Test Step 1.10 (Repeat Count = 1)

Name	Input Value		
k_CurrDiagPrimLPFKn_Hz_f32	75.0999985		
k_CurrDiagSecLPFKn_Hz_f32	100.199997		
Name	Actual Value	Expected Value	Result
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.610828221	0.610828221 ± 0.00000009	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.716104865	0.716104865 ± 0.00000009	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.610828221	0.610828221 ± 0.00000009	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	0	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.716104865	0.716104865 ± 0.00000009	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

# TEST DETAILS REPORT

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TqRsDg\_Per1



Project	TqRsDg_SF31
Module	TqRsDg
Test Object	TqRsDg_Per1

## Instrumentation: Test Object Only

Statement (C0) Coverage	98.24 %
Decision Coverage	97.5 %
Branch (C1) Coverage	97.5 %
MCC Coverage	97.77 %
MC/DC Coverage	97.72 %

## Statistics

Total Testcases	3
Successful	3 ✓
Failed	0
Not Executed	0

## Module Properties

Project Root Directory	D:\Synergy_Work_Area\TqRsDg_SF
Configuration File	D:\Synergy_Work_Area\TqRsDg_SF\UnitTestEnv\config\TMS570_GCC_UDE_CCS4_Config.xml
Target Environment	TI TMS 570 PLS UDE (Default)
Kind of Test	Unit Test
Linker Options	
Source File(s)	
File	\$(PROJECTROOT)\TqRsDg\src\Ap_TqRsDg.c
Compiler Options	-D_DATA_ACCESS= -D_Static= -Dconst= -I\$(PROJECTROOT)\TqRsDg\utp\contract\Ap_TqRsDg -I\$(PROJECTROOT)\TqRsDg\utp\contract -I\$(PROJECTROOT)\NxtLib\include -I\$(PROJECTROOT)\StdDef\include -I\$(Compiler Install Path)\include

## Comments/Description/Specification

Name	Text
Module 'TqRsDg'	*****Unit Test Information***** Name of Tester:Deepa Agrawal Code File(s) Under Test:Ap_TqRsDg.c Code File(s) Version:8 Module Design Document:TorqueReasonableDiagnostics.MDD Module Design Document Version:9 Data Dictionary Version:9 Unit Test Plan Version:5 Optimization Level:Level 2 Compiler (CodeGen) Version:TMS470_4.9.5 Model Type:Excel Macro Model Version:Nexteer EPS Unit Test Tool 2.7d/EPS Library 1.32 Total FLASH Used (Bytes):1066 Total RAM Used (Bytes):40 Total CALS Used (Bytes):76 Special Test Requirements:NA Test Date:9/30/2016 Comments: "Note1:Inline function defined in globalmacro.h is not unit tested. Note2: CBD_Sandbox_dbg.map is embedded in UTP for reference. Note 3:In Function "TqRsDg_Per1", 100% Path coverage can not be achieved due to Limit_m function at src line 823 To make condition "(MtrCurrIdptSig_Cnt_T_u08 >= D_TWO_CNT_U08)==> True" value of variable "MtrCurrIdptSig_Cnt_T_u08" should be >=2." *****

## Attributes

Name	Value
Compiler Install Path	\$(ProgramFiles)\Texas Instruments\ccsv4\tools\compiler\tms470_4.9.5
Float Precision	9
InitObjDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\obj
InitSrcDir	\$(PROJECTROOT)\UnitTestEnv\static_build_files\src
Linker File	\$(PROJECTROOT)\UnitTestEnv\static_build_files\sys_link.cmd
Makefile Template	\$(PROJECTROOT)\UnitTestEnv\config\Nexteer_ts_make_ude_ti_tms570_Ps.tpl
Target Install Path	\$(ProgramFiles)\pls\UDE 4.4
Time Unit	cycles
Timer Enabled	false

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Attributes	
Name	Value
Timer Prescale	0
Timer Resolution	1
UDE Config File	\$(PROJECTROOT)\UnitTestEnv\config\TMS570_UDE_12PIN_JTAG.cfg
Workspace File	D:\Synergy_Work_Area\TqRsDg_SF31_006\UnitTestEnv\config\UDE_TMS570_DEBUG.WSP

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TqRsDg\_Per1

## Test Case 1: Metrics Test

Specification	"Performance Metrics (With ""None"" Instrumentation and ""WithPS"" Environment)"
	CPU Cycles: TS1.1 2105.00 Cycles TS1.2 2009.00 Cycles
Description	Vector Description: TS1.1"Shortest path: DervLambdaAlphaDiagLmtd_Volt_T_f32 = Limit_m(DervLambdaAlphaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32)==>True DervLambdaBetaDiagLmtd_Volt_T_f32 = Limit_m(DervLambdaBetaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32)==>True ((Min_m(TrqLimitMinRatio_Uls_T_f32,OutputRampMult_Uls_T_f32)) < k_CurrDiagSecTrqLmtThresh_Uls_f32)==>False (((Abs_f32_m(DervLambdaAlphaDiagPrimFilt_Volt_T_f32)) > k_CurrDiagPrimErrorThresh_Volt_f32)    (AbsDervLambdaBetaDiagPrimFilt_Volt_T_f32 > k_CurrDiagPrimErrorThresh_Volt_f32))==>False TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16, k_CurrDiagPrim_Cnt_Str)==>False (((Abs_f32_m(DervLambdaAlphaDiagSecFilt_Volt_T_f32)) > k_CurrDiagSecErrorThresh_Volt_f32)    (AbsDervLambdaBetaDiagSecFilt_Volt_T_f32 > k_CurrDiagSecErrorThresh_Volt_f32)) && (TrqLmtFlag_Cnt_T_lgc ==TRUE))==>False TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str)==>True (CurrReasFitActive_Cnt_T_u8 > D_ZERO_CNT_U8)==>False" TS1.2"Longest Path: DervLambdaAlphaDiagLmtd_Volt_T_f32 = Limit_m(DervLambdaAlphaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32)==>False DervLambdaBetaDiagLmtd_Volt_T_f32 = Limit_m(DervLambdaBetaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32)==>False ((Min_m(TrqLimitMinRatio_Uls_T_f32,OutputRampMult_Uls_T_f32)) < k_CurrDiagSecTrqLmtThresh_Uls_f32)==>True (((Abs_f32_m(DervLambdaAlphaDiagPrimFilt_Volt_T_f32)) > k_CurrDiagPrimErrorThresh_Volt_f32)    (AbsDervLambdaBetaDiagPrimFilt_Volt_T_f32 > k_CurrDiagPrimErrorThresh_Volt_f32))==>False TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16, k_CurrDiagPrim_Cnt_Str)==>True (((Abs_f32_m(DervLambdaAlphaDiagSecFilt_Volt_T_f32)) > k_CurrDiagSecErrorThresh_Volt_f32)    (AbsDervLambdaBetaDiagSecFilt_Volt_T_f32 > k_CurrDiagSecErrorThresh_Volt_f32)) && (TrqLmtFlag_Cnt_T_lgc ==TRUE))==>True TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagPStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str)==>True (CurrReasFitActive_Cnt_T_u8 > D_ZERO_CNT_U8)==>False"

## Test Step 1.1 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.1328001
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.198400006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.57919979
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.192000002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.4527998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.184
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.91520023
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.175999999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	36
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	34
k_CurrDiagLambdaMinMax_Volt_f32	8.35309982
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1.03890002
k_CurrDiagPrimErrorThresh_Volt_f32	126.699097
k_CurrDiagPrim_Cnt_Str.Threshold	1
k_CurrDiagPrim_Cnt_Str.PStep	13
k_CurrDiagPrim_Cnt_Str.NStep	194
k_CurrDiagSecErrorThresh_Volt_f32	92.706398
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	25
k_CurrDiagSec_Cnt_Str.PStep	245
k_CurrDiagSec_Cnt_Str.NStep	1
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-5.60570002
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-44.8685989
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	195.035797
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	12.1499996
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.9200001

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Name	Input Value		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.97370005		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	0	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.5813074	10.5813074 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.34378815	9.3437891 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.8824549	10.8824549 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.64027023	9.64027023 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	33	33	✓
target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 1.2 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-0.587400019		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.545599997		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.536800027		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.527999997		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.505999982		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.8971004		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.483999997		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	72		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	70		
k_CurrDiagLambdaMinMax_Volt_f32	12.1154003		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019		
k_CurrDiagPrimErrorThresh_Volt_f32	8.53390026		
k_CurrDiagPrim_Cnt_Str.Threshold	125		
k_CurrDiagPrim_Cnt_Str.PStep	147		
k_CurrDiagPrim_Cnt_Str.NStep	119		
k_CurrDiagSecErrorThresh_Volt_f32	135.560196		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.845499992		
k_CurrDiagSec_Cnt_Str.Threshold	96		
k_CurrDiagSec_Cnt_Str.PStep	17		
k_CurrDiagSec_Cnt_Str.NStep	135		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0216000006		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.102899998		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.0318999998		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	131.775101		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	164.5672		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.99000001		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	2.54999995		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.22289991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.89281178	-5.89281225 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.69778633	-5.69778681 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.84050751	-9.8405056 ± 0.0625	✓

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Name	Actual Value	Expected Value	Result
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.4384193	13.4384193 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	125	125	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	0	0	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1		✓

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## Test Case 2: Range Test





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Specification	"Performance Metrics (With ""None"" Instrumentation and ""WithPS"" Environment)
	CPU Cycles:
	TS1.1 2105.00 Cycles
	TS1.2 2009.00 Cycles
	TS1.3 2008.00 Cycles
	TS1.4 1971.00 Cycles
	TS1.5 1944.00 Cycles
	TS1.6 1941.00 Cycles
	TS1.7 1947.00 Cycles
	TS1.8 1944.00 Cycles
	TS1.9 1934.00 Cycles
	TS1.10 1500.00 Cycles
	TS1.11 1521.00 Cycles
	TS1.12 1530.00 Cycles
	TS1.13 1923.00 Cycles
	TS1.14 1944.00 Cycles
	TS1.15 1548.00 Cycles
	TS1.16 1521.00 Cycles
	TS1.17 1524.00 Cycles
	TS1.18 1923.00 Cycles
	TS1.19 1959.00 Cycles
	TS1.20 1944.00 Cycles
	TS1.21 1959.00 Cycles
	TS1.22 1564.00 Cycles
	TS1.23 1940.00 Cycles
	TS1.24 1543.00 Cycles
	TS1.25 2008.00 Cycles
	TS1.26 1521.00 Cycles
	TS1.27 2003.00 Cycles
	TS1.28 1985.00 Cycles
	TS1.29 1985.00 Cycles
	TS1.30 1964.00 Cycles
	TS1.31 1947.00 Cycles
	TS1.32 1944.00 Cycles
	TS1.33 1944.00 Cycles
	TS1.34 1513.00 Cycles
	TS1.35 1991.00 Cycles
	TS1.36 1935.00 Cycles
	TS1.37 1945.00 Cycles
	TS1.38 1944.00 Cycles
	TS1.39 1924.00 Cycles
	TS1.40 1965.00 Cycles
	TS1.41 1924.00 Cycles
	TS1.42 1944.00 Cycles
	TS1.43 1944.00 Cycles
	TS1.44 1515.00 Cycles
	TS1.45 1964.00 Cycles
	TS1.46 1964.00 Cycles
	TS1.47 1964.00 Cycles
	TS1.48 1964.00 Cycles
	TS1.49 1528.00 Cycles
	TS1.50 1526.00 Cycles
	TS1.51 1533.00 Cycles
	TS1.52 1955.00 Cycles
	TS1.53 1933.00 Cycles
	TS1.54 1931.00 Cycles
	TS1.55 1494.00 Cycles
	TS1.56 1550.00 Cycles
	TS1.57 2004.00 Cycles
	TS1.58 1964.00 Cycles
	TS1.59 1990.00 Cycles
	TS1.60 1535.00 Cycles
	TS1.61 1501.00 Cycles
	TS1.62 1484.00 Cycles
	TS1.63 1936.00 Cycles
	TS1.64 1933.00 Cycles
	TS1.65 2045.00 Cycles
	TS1.66 2048.00 Cycles
	TS1.67 1964.00 Cycles
	TS1.68 1562.00 Cycles
	TS1.69 1542.00 Cycles
	TS1.70 1510.00 Cycles
	TS1.71 1537.00 Cycles
	TS1.72 1995.00 Cycles
	TS1.73 1604.00 Cycles
	TS1.74 2003.00 Cycles
	TS1.75 1578.00 Cycles
	TS1.76 1543.00 Cycles
	TS1.77 1526.00 Cycles
	TS1.78 1526.00 Cycles
	TS1.79 1933.00 Cycles
	TS1.80 1967.00 Cycles
	TS1.81 1539.00 Cycles
	TS1.82 1527.00 Cycles
	TS1.83 1499.00 Cycles
	TS1.84 2014.00 Cycles
	TS1.85 1995.00 Cycles
	TS1.86 1549.00 Cycles
	TS1.87 1933.00 Cycles
	TS1.88 1494.00 Cycles
	TS1.89 2016.00 Cycles
	TS1.90 1979.00 Cycles
	TS1.91 2048.00 Cycles
	TS1.92 1959.00 Cycles
	TS1.93 1964.00 Cycles
	TS1.94 2007.00 Cycles
	TS1.95 1936.00 Cycles
	TS1.96 1944.00 Cycles
	TS1.97 1984.00 Cycles
	TS1.98 1964.00 Cycles
	TS1.99 1965.00 Cycles
	TS1.100 1494.00 Cycles
	TS1.101 1515.00 Cycles
	TS1.102 1964.00 Cycles
	TS1.103 1934.00 Cycles
	TS1.104 1936.00 Cycles
	TS1.105 1984.00 Cycles
	TS1.106 1931.00 Cycles
	TS1.107 2016.00 Cycles
	TS1.108 1959.00 Cycles
	TS1.109 1514.00 Cycles
	TS1.110 1975.00 Cycles

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TS1.111 1979.00 Cycles  
TS1.112 1565.00 Cycles  
TS1.113 1543.00 Cycles

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Description	Vector Description:
	TS2.1All Min
	TS2.2All Max
	TS2.3k_CurrDiagMtrEnvTblMax_MtrNm_f32==>Min
	TS2.4k_CurrDiagMtrEnvTblMax_MtrNm_f32==>Max
	TS2.5k_CurrDiagMtrEnvTblMax_MtrNm_f32==>Pos/Default
	TS2.6k_CurrDiagPrim_Cnt_Str.Pstep==>Min
	TS2.7k_CurrDiagPrim_Cnt_Str.Pstep==>Max
	TS2.8k_CurrDiagPrim_Cnt_Str.Pstep==>Pos/Default
	TS2.9k_CurrDiagPrim_Cnt_Str.Nstep==>Min
	TS2.10k_CurrDiagPrim_Cnt_Str.Nstep==>Max
	TS2.11k_CurrDiagPrim_Cnt_Str.Nstep==>Pos/Default
	TS2.12k_CurrDiagPrim_Cnt_Str.Threshold==>Min
	TS2.13k_CurrDiagPrim_Cnt_Str.Threshold==>Max
	TS2.14k_CurrDiagPrim_Cnt_Str.Threshold==>Pos/Default
	TS2.15k_CurrDiagPrimErrorThresh_Volt_f32==>Min
	TS2.16k_CurrDiagPrimErrorThresh_Volt_f32==>Max
	TS2.17k_CurrDiagPrimErrorThresh_Volt_f32==>Pos/Default
	TS2.18k_CurrDiagSec_Cnt_Str.Pstep==>Min
	TS2.19k_CurrDiagSec_Cnt_Str.Pstep==>Max
	TS2.20k_CurrDiagSec_Cnt_Str.Pstep==>Pos/Default
	TS2.21k_CurrDiagSec_Cnt_Str.Nstep==>Min
	TS2.22k_CurrDiagSec_Cnt_Str.Nstep==>Max
	TS2.23k_CurrDiagSec_Cnt_Str.Nstep==>Pos/Default
	TS2.24k_CurrDiagSec_Cnt_Str.Threshold==>Min
	TS2.25k_CurrDiagSec_Cnt_Str.Threshold==>Max
	TS2.26k_CurrDiagSec_Cnt_Str.Threshold==>Pos/Default
	TS2.27k_CurrDiagSecErrorThresh_Volt_f32==>Min
	TS2.28k_CurrDiagSecErrorThresh_Volt_f32==>Max
	TS2.29k_CurrDiagSecErrorThresh_Volt_f32==>Pos/Default
	TS2.30k_CurrDiagSecTrqLmtThresh_Uls_f32==>Min/Default
	TS2.31k_CurrDiagSecTrqLmtThresh_Uls_f32==>Max
	TS2.32k_CurrDiagSecTrqLmtThresh_Uls_f32==>Pos
	TS2.33MtrVoltQax_Volt_f32==>Min
	TS2.34MtrVoltQax_Volt_f32==>Max
	TS2.35MtrVoltQax_Volt_f32==>Pos
	TS2.36MtrVoltQax_Volt_f32==>ZERO
	TS2.37MtrVoltQax_Volt_f32==>NEG
	TS2.38MtrVoltDax_Volt_f32==>Min
	TS2.39MtrVoltDax_Volt_f32==>Max
	TS2.40MtrVoltDax_Volt_f32==>Pos
	TS2.41MtrVoltDax_Volt_f32==>zero
	TS2.42MtrVoltDax_Volt_f32==>neg
	TS2.43OutputRampMult_Uls_f32==>Min
	TS2.44OutputRampMult_Uls_f32==>Max
	TS2.45OutputRampMult_Uls_f32==>POS
	TS2.46TrqLimitMin_MtrNm_f32==>Min
	TS2.47TrqLimitMin_MtrNm_f32==>Max
	TS2.48TrqLimitMin_MtrNm_f32==>Pos
	TS2.49TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV==>Min
	TS2.50TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV==>Max
	TS2.51TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV==>Pos
	TS2.52TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV==>zero
	TS2.53TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV==>neg
	TS2.54TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K==>Min
	TS2.55TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K==>Max
	TS2.56TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K==>Pos
	TS2.57TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV==>Min
	TS2.58TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV==>Max
	TS2.59TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV==>Pos
	TS2.60TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV==>zero
	TS2.61TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV==>neg
	TS2.62TqRsDg_AlpaCurrDiagSecLPF_M_Str.K==>Min
	TS2.63TqRsDg_AlpaCurrDiagSecLPF_M_Str.K==>Max
	TS2.64TqRsDg_AlpaCurrDiagSecLPF_M_Str.K==>Pos
	TS2.65TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV==>Min
	TS2.66TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV==>Max
	TS2.67TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV==>Pos
	TS2.68TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV==>zero
	TS2.69TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV==>neg
	TS2.70TqRsDg_BetaCurrDiagPrimLPF_M_Str.K==>Min
	TS2.71TqRsDg_BetaCurrDiagPrimLPF_M_Str.K==>Max
	TS2.72TqRsDg_BetaCurrDiagPrimLPF_M_Str.K==>Pos
	TS2.73TqRsDg_BetaCurrDiagSecLPF_M_Str.SV==>Min
	TS2.74TqRsDg_BetaCurrDiagSecLPF_M_Str.SV==>Max
	TS2.75TqRsDg_BetaCurrDiagSecLPF_M_Str.SV==>pos
	TS2.76TqRsDg_BetaCurrDiagSecLPF_M_Str.SV==>zero
	TS2.77TqRsDg_BetaCurrDiagSecLPF_M_Str.SV==>neg
	TS2.78TqRsDg_BetaCurrDiagSecLPF_M_Str.SV==>min
	TS2.79TqRsDg_BetaCurrDiagSecLPF_M_Str.K==>max
	TS2.80TqRsDg_BetaCurrDiagSecLPF_M_Str.K==>pos
	TS2.81TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16==>Min
	TS2.82TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16==>Max
	TS2.83TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16==>Pos
	TS2.84TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16==>Min
	TS2.85TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16==>Max
	TS2.86TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16==>Pos
	TS2.87k_CurrDiagLambdaMinMax_Volt_f32==>Min
	TS2.88k_CurrDiagLambdaMinMax_Volt_f32==>Max
	TS2.89k_CurrDiagLambdaMinMax_Volt_f32==>Pos/Default
	TS2.90CorrMtrPosElec_Rev_f32==>Min
	TS2.91CorrMtrPosElec_Rev_f32==>Max
	TS2.92CorrMtrPosElec_Rev_f32==>Pos
	TS2.93EstKe_VpRadpS_f32==>Min
	TS2.94EstKe_VpRadpS_f32==>Max
	TS2.95EstKe_VpRadpS_f32==>Pos

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TS2.96EstR\_Ohm\_f32==>Min  
TS2.97EstR\_Ohm\_f32==>Max  
TS2.98EstR\_Ohm\_f32==>Pos  
TS2.99MRFMtrVel\_MtrRadpS\_f32==>Min  
TS2.100MRFMtrVel\_MtrRadpS\_f32==>Max  
TS2.101MRFMtrVel\_MtrRadpS\_f32==>Pos  
TS2.102MRFMtrVel\_MtrRadpS\_f32==>Zero  
TS2.103MRFMtrVel\_MtrRadpS\_f32==>Neg  
TS2.104MtrCurrDaxRef\_Amp\_f32==>Min  
TS2.105MtrCurrDaxRef\_Amp\_f32==>Max  
TS2.106MtrCurrDaxRef\_Amp\_f32==>Pos  
TS2.107MtrCurrDaxRef\_Amp\_f32==>Zero  
TS2.108MtrCurrDaxRef\_Amp\_f32==>Neg  
TS2.109MtrCurrQaxFinalRef\_Amp\_f32==>Min  
TS2.110MtrCurrQaxFinalRef\_Amp\_f32==>Max  
TS2.111MtrCurrQaxFinalRef\_Amp\_f32==>Pos  
TS2.112MtrCurrQaxFinalRef\_Amp\_f32==>Zero  
TS2.113MtrCurrQaxFinalRef\_Amp\_f32==>Neg

## Test Step 2.1 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0		
k_CurrDiagLambdaMinMax_Volt_f32	0		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1		
k_CurrDiagPrimErrorThresh_Volt_f32	0		
k_CurrDiagPrim_Cnt_Str.Threshold	0		
k_CurrDiagPrim_Cnt_Str.PStep	0		
k_CurrDiagPrim_Cnt_Str.NStep	0		
k_CurrDiagSecErrorThresh_Volt_f32	0		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0		
k_CurrDiagSec_Cnt_Str.Threshold	0		
k_CurrDiagSec_Cnt_Str.PStep	0		
k_CurrDiagSec_Cnt_Str.NStep	0		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_Estr_Ohm_f32	target_TqRsDg_Per1_Estr_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0250000004		
target_TqRsDg_Per1_Estr_Ohm_f32.value	0.00499999989		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.80000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-220		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-220		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-31		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-31		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	0	0	✔

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T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.2 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	255
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	255
k_CurrDiagLambdaMinMax_Volt_f32	20
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	250
k_CurrDiagPrim_Cnt_Str.Threshold	255
k_CurrDiagPrim_Cnt_Str.PStep	255
k_CurrDiagPrim_Cnt_Str.NStep	255
k_CurrDiagSecErrorThresh_Volt_f32	250
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	255
k_CurrDiagSec_Cnt_Str.PStep	255
k_CurrDiagSec_Cnt_Str.NStep	255
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	220
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	220
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	31
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	31
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.09439468	8.09439373 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.09439468	8.09439373 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.78488541	-4.78488684 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.78488541	-4.78488684 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

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## Test Step 2.3 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.695800006
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0124000004
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.598699987
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0120000001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.715799987
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0115
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.369700015
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0109999999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	16
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	14
k_CurrDiagLambdaMinMax_Volt_f32	2.72390008
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1
k_CurrDiagPrimErrorThresh_Volt_f32	43.7410011
k_CurrDiagPrim_Cnt_Str.Threshold	22
k_CurrDiagPrim_Cnt_Str.PStep	80
k_CurrDiagPrim_Cnt_Str.NStep	166
k_CurrDiagSecErrorThresh_Volt_f32	58.0890007
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	43
k_CurrDiagSec_Cnt_Str.PStep	46
k_CurrDiagSec_Cnt_Str.NStep	17
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-19.8666992
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	57.9738998
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-14.4499998
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.1199999
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.973100007
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.045700007

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.653395712	0.653395712 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.558828771	0.558828771 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.738893151	0.738893151 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.395596206	0.395596206 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

## T ✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.4 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.39160001
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0248000007
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.19739997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0240000002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.43159997
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.023

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.739400029		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0219999999		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	17		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	15		
k_CurrDiagLambdaMinMax_Volt_f32	12.7407999		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019		
k_CurrDiagPrimErrorThresh_Volt_f32	157.643005		
k_CurrDiagPrim_Cnt_Str.Threshold	81		
k_CurrDiagPrim_Cnt_Str.PStep	77		
k_CurrDiagPrim_Cnt_Str.NStep	199		
k_CurrDiagSecErrorThresh_Volt_f32	191.136703		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.440200001		
k_CurrDiagSec_Cnt_Str.Threshold	247		
k_CurrDiagSec_Cnt_Str.PStep	128		
k_CurrDiagSec_Cnt_Str.NStep	86		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0562999994		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0370000005		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.56289995		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-50.7308998		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-50.6444016		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-13.1199999		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.1099997		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.04111648	1.04111648 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.86288321	0.86288321 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.50925756	1.50925756 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.828909516	0.828909516 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.5 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.39159989
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0254999995
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.19740009
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0219999999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.43160009
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0219999999
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.73940003
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0250000004
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	18
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	16
k_CurrDiagLambdaMinMax_Volt_f32	8.08250046
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	4.5999999
k_CurrDiagPrimErrorThresh_Volt_f32	152.038605
k_CurrDiagPrim_Cnt_Str.Threshold	76
k_CurrDiagPrim_Cnt_Str.PStep	57

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	203		
k_CurrDiagSecErrorThresh_Volt_f32	135.693893		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.0627999976		
k_CurrDiagSec_Cnt_Str.Threshold	240		
k_CurrDiagSec_Cnt_Str.PStep	120		
k_CurrDiagSec_Cnt_Str.NStep	233		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.685400009		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.337700009		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-112.988899		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-180.135895		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-11.79		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.1000004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.91849995		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.12575769	2.12575769 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.97231841	1.97231817 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.44196725	2.44196701 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.76848578	1.76848567 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.6 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.08739996	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0372000001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.79610002	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0359999985	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.14739999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0344999991	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.10909998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0329999998	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	19	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	17	
k_CurrDiagLambdaMinMax_Volt_f32	12.8172998	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	2.80559993	
k_CurrDiagPrimErrorThresh_Volt_f32	211.609207	
k_CurrDiagPrim_Cnt_Str.Threshold	72	
k_CurrDiagPrim_Cnt_Str.PStep	0	
k_CurrDiagPrim_Cnt_Str.NStep	57	
k_CurrDiagSecErrorThresh_Volt_f32	70.9841003	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	216	
k_CurrDiagSec_Cnt_Str.PStep	57	
k_CurrDiagSec_Cnt_Str.NStep	189	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	



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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.38970006		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-150.725403		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	113.565697		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-10.46		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0900002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.58419991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.23084998	2.23085022 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.94540942	1.94540954 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.51551151	2.51551151 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.49547052	1.49547064 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.7 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.78320003
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0496000014
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.39479995
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0480000004
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.86319995
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0460000001
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.47880006
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0439999998
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	20
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	18
k_CurrDiagLambdaMinMax_Volt_f32	14.5207005
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	4.20749998
k_CurrDiagPrimErrorThresh_Volt_f32	14.4371004
k_CurrDiagPrim_Cnt_Str.Threshold	189
k_CurrDiagPrim_Cnt_Str.PStep	255
k_CurrDiagPrim_Cnt_Str.NStep	113
k_CurrDiagSecErrorThresh_Volt_f32	64.040802
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.668099999
k_CurrDiagSec_Cnt_Str.Threshold	211
k_CurrDiagSec_Cnt_Str.PStep	176
k_CurrDiagSec_Cnt_Str.NStep	139
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.744300008

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.03299999
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	57.2033997
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-69.7826004
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-9.13000011
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0799999
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.755699992
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.02729988

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.85280204	2.85280204 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.48079991	2.48080015 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.39944506	3.39944506 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.05264378	2.05264354 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.8 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.47900009
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.061999999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.99349999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0599999987
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.579
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.057500001
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.84850001
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0549999997
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	21
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	19
k_CurrDiagLambdaMinMax_Volt_f32	18.1250992
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	80.8972015
k_CurrDiagPrim_Cnt_Str.Threshold	146
k_CurrDiagPrim_Cnt_Str.PStep	2
k_CurrDiagPrim_Cnt_Str.NStep	113
k_CurrDiagSecErrorThresh_Volt_f32	107.6511
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	59
k_CurrDiagSec_Cnt_Str.PStep	10
k_CurrDiagSec_Cnt_Str.NStep	114
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.75209999
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	3.69689989
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-207.319794
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-7.80000019
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0699997
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.36530018

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.75469422	2.75469398 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.32168865	2.32168865 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.72877407	2.72877407 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.13041794	1.13041794 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

## T ✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.9 (Repeat Count = 1) ✓

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.47900009
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.063000001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.99349999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0500000007
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.579
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0588000007

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.84850001		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0560000017		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	22		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	20		
k_CurrDiagLambdaMinMax_Volt_f32	0.855799973		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.33370018		
k_CurrDiagPrimErrorThresh_Volt_f32	185.998398		
k_CurrDiagPrim_Cnt_Str.Threshold	42		
k_CurrDiagPrim_Cnt_Str.PStep	59		
k_CurrDiagPrim_Cnt_Str.NStep	0		
k_CurrDiagSecErrorThresh_Volt_f32	143.790894		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	169		
k_CurrDiagSec_Cnt_Str.PStep	235		
k_CurrDiagSec_Cnt_Str.NStep	60		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.921700001		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.32930005		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-140.936096		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-185.024506		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-6.46999979		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0600004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.98649979		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.25073862	4.25073862 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.83661509	3.83661509 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.25943375	4.25943375 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.64105916	2.64105916 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	22	22	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.10 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.17479992	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0744000003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.59220004	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0719999969	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.2947998	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0689999983	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.21819997	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0659999996	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	23	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	21	
k_CurrDiagLambdaMinMax_Volt_f32	12.9694004	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	4.40310001	
k_CurrDiagPrimErrorThresh_Volt_f32	8.31260014	
k_CurrDiagPrim_Cnt_Str.Threshold	13	
k_CurrDiagPrim_Cnt_Str.PStep	66	

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	255		
k_CurrDiagSecErrorThresh_Volt_f32	83.521698		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	95		
k_CurrDiagSec_Cnt_Str.PStep	236		
k_CurrDiagSec_Cnt_Str.NStep	17		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.42579997		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	78.3576965		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-100.774101		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-5.13999987		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0500002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.240799993		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.9046998		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.89927149	2.89927149 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.39976501	2.39976478 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.99697709	3.99697757 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.07038164	2.07038188 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	4	4	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.11 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.87060022	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0868000016	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.19089985	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0839999989	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.01060009	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0804999992	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.58789992	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0769999996	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	24	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	22	
k_CurrDiagLambdaMinMax_Volt_f32	20	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.57259989	
k_CurrDiagPrimErrorThresh_Volt_f32	238.328705	
k_CurrDiagPrim_Cnt_Str.Threshold	144	
k_CurrDiagPrim_Cnt_Str.PStep	159	
k_CurrDiagPrim_Cnt_Str.NStep	1	
k_CurrDiagSecErrorThresh_Volt_f32	229.691299	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	108	
k_CurrDiagSec_Cnt_Str.PStep	171	
k_CurrDiagSec_Cnt_Str.NStep	233	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.341199994		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-2.77670002		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-73.5203018		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	47.5036011		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-3.80999994		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.04		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.54220009		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.08361292	3.08361292 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.5186522	2.51865244 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.19231224	4.19231224 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.9917376	1.99173796 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	23	23	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.12 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.56640005	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0992000028	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.7895999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0960000008	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.7263999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0920000002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.95760012	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0879999995	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	25	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	23	
k_CurrDiagLambdaMinMax_Volt_f32	4.73829985	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.58060002	
k_CurrDiagPrimErrorThresh_Volt_f32	127.967102	
k_CurrDiagPrim_Cnt_Str.Threshold	0	
k_CurrDiagPrim_Cnt_Str.PStep	33	
k_CurrDiagPrim_Cnt_Str.NStep	74	
k_CurrDiagSecErrorThresh_Volt_f32	67.6595001	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	40	
k_CurrDiagSec_Cnt_Str.PStep	25	
k_CurrDiagSec_Cnt_Str.NStep	140	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	0.384799987
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	159.541107
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-194.729095
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-2.48000002
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0299997
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.420899987
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.6408

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.54417372	4.54417372 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.87492156	3.87492156 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.76364756	4.76364756 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.28036094	2.2803607 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.13 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.56640005
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0998999998
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.7895999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0979999974
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.7263999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0659999996
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.95760012
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.057
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	26
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	24
k_CurrDiagLambdaMinMax_Volt_f32	8.0241003
k_CurrDiagMtrEnvTblMax_MtrNm_f32	7.2565999
k_CurrDiagPrimErrorThresh_Volt_f32	210.303894
k_CurrDiagPrim_Cnt_Str.Threshold	255
k_CurrDiagPrim_Cnt_Str.PStep	0
k_CurrDiagPrim_Cnt_Str.NStep	164
k_CurrDiagSecErrorThresh_Volt_f32	210.636703
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	253
k_CurrDiagSec_Cnt_Str.PStep	251
k_CurrDiagSec_Cnt_Str.NStep	141
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.520799994
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-7.58860016
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	210.762207
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	117.104897
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-1.14999998
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0200005
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.226899996
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.549399972

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.71202421	6.71202421 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.00858116	6.00858116 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.75286674	5.75286722 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.27464318	3.27464318 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.14 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.26219988
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.111599997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.38829994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.108000003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.44220018
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.103500001



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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.32730007		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0989999995		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	27		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	25		
k_CurrDiagLambdaMinMax_Volt_f32	11.6905003		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	5.17859983		
k_CurrDiagPrimErrorThresh_Volt_f32	3.60010004		
k_CurrDiagPrim_Cnt_Str.Threshold	200		
k_CurrDiagPrim_Cnt_Str.PStep	159		
k_CurrDiagPrim_Cnt_Str.NStep	2		
k_CurrDiagSecErrorThresh_Volt_f32	105.122002		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	85		
k_CurrDiagSec_Cnt_Str.PStep	67		
k_CurrDiagSec_Cnt_Str.NStep	127		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.256999999		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-3.31399989		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	203.820602		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-152.617294		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	0.180000007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0100002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.29760003		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.32304049	6.32304096 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.54155922	5.54155922 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.56546593	4.56546545 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.84053791	1.84053779 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	186	186	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.15 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.95800018	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.123999998	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.98699999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.119999997	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.15799999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.115000002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.69700003	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.109999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	28	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	26	
k_CurrDiagLambdaMinMax_Volt_f32	11.3079004	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	6.01310015	
k_CurrDiagPrimErrorThresh_Volt_f32	0	
k_CurrDiagPrim_Cnt_Str.Threshold	235	
k_CurrDiagPrim_Cnt_Str.PStep	187	

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	152		
k_CurrDiagSecErrorThresh_Volt_f32	63.2280006		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	246		
k_CurrDiagSec_Cnt_Str.PStep	80		
k_CurrDiagSec_Cnt_Str.NStep	185		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.050999999		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.86359978		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	87.6671982		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-45.3522987		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.50999999		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-21.2199993		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.429800004		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.80254078	5.80254126 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.98533344	4.98533392 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.63523865	7.63523865 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.53419924	4.53419924 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	215	215	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.16 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.65380001	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.136399999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.58570004	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.131999999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.8737998	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.126499996	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.06669998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.120999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	29	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	27	
k_CurrDiagLambdaMinMax_Volt_f32	16.0431004	
k_CurrDiagMtrEnvTb1Max_MtrNm_f32	8.15810013	
k_CurrDiagPrimErrorThresh_Volt_f32	250	
k_CurrDiagPrim_Cnt_Str.Threshold	61	
k_CurrDiagPrim_Cnt_Str.PStep	109	
k_CurrDiagPrim_Cnt_Str.NStep	251	
k_CurrDiagSecErrorThresh_Volt_f32	181.786301	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.184599996	
k_CurrDiagSec_Cnt_Str.Threshold	137	
k_CurrDiagSec_Cnt_Str.PStep	108	
k_CurrDiagSec_Cnt_Str.NStep	15	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.887499988		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-2.64980006		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-62.5007019		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	57.2453003		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.83999991		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-21.9899998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.5934999		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.79810047	8.79810047 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.83407688	7.83407688 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.78102684	8.78102684 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.39514112	5.3951416 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	12	12	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.17 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.65380001	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.123400003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.58570004	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.123000003	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.87380028	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0557999983	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.06669998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0579999983	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	30	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	28	
k_CurrDiagLambdaMinMax_Volt_f32	10.7623997	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	4.82700014	
k_CurrDiagPrimErrorThresh_Volt_f32	20	
k_CurrDiagPrim_Cnt_Str.Threshold	61	
k_CurrDiagPrim_Cnt_Str.PStep	123	
k_CurrDiagPrim_Cnt_Str.NStep	210	
k_CurrDiagSecErrorThresh_Volt_f32	82.7951965	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	24	
k_CurrDiagSec_Cnt_Str.PStep	125	
k_CurrDiagSec_Cnt_Str.NStep	107	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.907999992	

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Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0260000005
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-3.14840007
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	202.574997
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-7.7874999
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.17000008
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-22.7600002
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.897099972
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.84109998

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.21062422	7.21062469 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.27857828	6.27857924 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.97918415	8.97918415 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.39705038	5.39705038 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.18 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.34959984
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.148800001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.18440008
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.143999994
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.58959961
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.137999997
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.43639994
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.131999999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	31
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	29
k_CurrDiagLambdaMinMax_Volt_f32	3.76769996
k_CurrDiagMtrEnvTblMax_MtrNm_f32	7.15859985
k_CurrDiagPrimErrorThresh_Volt_f32	8.44050026
k_CurrDiagPrim_Cnt_Str.Threshold	93
k_CurrDiagPrim_Cnt_Str.PStep	87
k_CurrDiagPrim_Cnt_Str.NStep	249
k_CurrDiagSecErrorThresh_Volt_f32	158.779999
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	136
k_CurrDiagSec_Cnt_Str.PStep	0
k_CurrDiagSec_Cnt_Str.NStep	236
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0270000007
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.00620008
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	156.568802
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	203.218597
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.5
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-23.5300007
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	3.02340007

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.54654551	6.54654598 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.6072979	5.60729742 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.92417765	7.92417765 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.34813166	4.34813166 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

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Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.19 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.04539967
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.161200002
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.78310013
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.156000003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.30539989
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.149499997

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.80609989		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.143000007		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	32		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	30		
k_CurrDiagLambdaMinMax_Volt_f32	18.4493999		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019		
k_CurrDiagPrimErrorThresh_Volt_f32	151.296005		
k_CurrDiagPrim_Cnt_Str.Threshold	120		
k_CurrDiagPrim_Cnt_Str.PStep	94		
k_CurrDiagPrim_Cnt_Str.NStep	107		
k_CurrDiagSecErrorThresh_Volt_f32	201.603394		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.755299985		
k_CurrDiagSec_Cnt_Str.Threshold	20		
k_CurrDiagSec_Cnt_Str.PStep	255		
k_CurrDiagSec_Cnt_Str.NStep	156		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.141900003		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0280000009		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.3032999		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	114.112297		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-64.0852966		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.82999992		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-24.2999992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.84024572	4.84024572 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.91051483	3.91051459 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.89756489	8.89756584 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.05939722	5.05939722 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.20 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.74120045
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.173600003
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.3817997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.167999998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.0212002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.160999998
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.17579985
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.153999999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	33
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	31
k_CurrDiagLambdaMinMax_Volt_f32	7.74889994
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.41989994
k_CurrDiagPrimErrorThresh_Volt_f32	21.5121994
k_CurrDiagPrim_Cnt_Str.Threshold	54
k_CurrDiagPrim_Cnt_Str.PStep	103

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	149		
k_CurrDiagSecErrorThresh_Volt_f32	186.361893		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.765100002		
k_CurrDiagSec_Cnt_Str.Threshold	75		
k_CurrDiagSec_Cnt_Str.PStep	2		
k_CurrDiagSec_Cnt_Str.NStep	40		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.240099996		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0289999992		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.11740017		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-126.655197		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	164.370102		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	8.15999985		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.0699997		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.2421		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.69410038		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.70491886	6.70491886 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.67184258	5.67184258 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.65536022	9.65535927 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.57205725	5.57205725 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.21 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.7412004	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.173600003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.3817997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.162	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.0212002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.208000004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.17579985	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.222000003	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	34	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	32	
k_CurrDiagLambdaMinMax_Volt_f32	1.50469995	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	7.37900019	
k_CurrDiagPrimErrorThresh_Volt_f32	0.828400016	
k_CurrDiagPrim_Cnt_Str.Threshold	122	
k_CurrDiagPrim_Cnt_Str.PStep	39	
k_CurrDiagPrim_Cnt_Str.NStep	12	
k_CurrDiagSecErrorThresh_Volt_f32	127.712502	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	198	
k_CurrDiagSec_Cnt_Str.PStep	38	
k_CurrDiagSec_Cnt_Str.NStep	0	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	



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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0421000011		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0309999995		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.1256500004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	7.99650002		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	18.7458992		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	69.3097992		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	9.48999977		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.9399996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.580600023		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.26149988		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.13774395	9.13774395 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.10570908	8.10571003 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.04176807	9.04176807 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.13881588	5.13881588 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	73	73	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	32	32	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.22 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.4370003	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.186000004	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.98050022	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.180000007	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.7370005	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.172499999	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.5454998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.165000007	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	35	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	33	
k_CurrDiagLambdaMinMax_Volt_f32	13.2119999	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019	
k_CurrDiagPrimErrorThresh_Volt_f32	85.0475998	
k_CurrDiagPrim_Cnt_Str.Threshold	34	
k_CurrDiagPrim_Cnt_Str.PStep	194	
k_CurrDiagPrim_Cnt_Str.NStep	117	
k_CurrDiagSecErrorThresh_Volt_f32	161.8452	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.520399988	
k_CurrDiagSec_Cnt_Str.Threshold	226	
k_CurrDiagSec_Cnt_Str.PStep	125	
k_CurrDiagSec_Cnt_Str.NStep	255	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	



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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0309999995
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	183.184296
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	209.760696
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	10.8199997
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.9300003
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.4453001

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.80123138	6.80123234 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.72418404	5.72418547 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.1639376	11.1639376 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.81047249	6.81047249 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.23 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.1328001
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.198400006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.57919979
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.192000002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.4527998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.184
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.91520023
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.175999999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	36
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	34
k_CurrDiagLambdaMinMax_Volt_f32	8.35309982
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1.03890002
k_CurrDiagPrimErrorThresh_Volt_f32	126.699097
k_CurrDiagPrim_Cnt_Str.Threshold	1
k_CurrDiagPrim_Cnt_Str.PStep	13
k_CurrDiagPrim_Cnt_Str.NStep	194
k_CurrDiagSecErrorThresh_Volt_f32	92.706398
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	25
k_CurrDiagSec_Cnt_Str.PStep	245
k_CurrDiagSec_Cnt_Str.NStep	1
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-5.60570002
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-44.8685989
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	195.035797
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	12.1499996
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.9200001
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.97370005

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.5813074	10.5813074 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.34378815	9.3437891 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.8824549	10.8824549 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.64027023	9.64027023 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	33	33	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 2.24 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.8285999
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.210800007
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.1779000
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.203999996
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.1686001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.195500001

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.2848997		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.187000006		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	37		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	35		
k_CurrDiagLambdaMinMax_Volt_f32	9.57789993		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.59439993		
k_CurrDiagPrimErrorThresh_Volt_f32	44.3796997		
k_CurrDiagPrim_Cnt_Str.Threshold	86		
k_CurrDiagPrim_Cnt_Str.PStep	202		
k_CurrDiagPrim_Cnt_Str.NStep	109		
k_CurrDiagSecErrorThresh_Volt_f32	121.907402		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.936100006		
k_CurrDiagSec_Cnt_Str.Threshold	0		
k_CurrDiagSec_Cnt_Str.PStep	5		
k_CurrDiagSec_Cnt_Str.NStep	213		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0782999992		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0141000003		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-7.46210003		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-184.058701		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-15.9850998		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	13.4799995		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.9099998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	3.93659997		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.2461042	11.2461042 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.95093727	9.95093727 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.662118	11.662118 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.1526909	10.1526909 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.25 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8285999
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.234500006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.1779003
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.224999994
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.1686001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0225000009
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.2848997
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0590000004
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	38
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	36
k_CurrDiagLambdaMinMax_Volt_f32	2.64680004
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	2.17720008
k_CurrDiagPrimErrorThresh_Volt_f32	147.745102
k_CurrDiagPrim_Cnt_Str.Threshold	47
k_CurrDiagPrim_Cnt_Str.PStep	227

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	37		
k_CurrDiagSecErrorThresh_Volt_f32	51.2633018		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	255		
k_CurrDiagSec_Cnt_Str.PStep	160		
k_CurrDiagSec_Cnt_Str.NStep	134		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.50430012		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	140.245895		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-188.398804		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	14.8100004		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.8999996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.381199986		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.71432304	9.71432304 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.56119633	8.56119537 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8127537	12.8127537 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.4629297	10.4629297 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	1	1	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.26 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.5243998	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.223199993	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.7765999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.216000006	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8844004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.207000002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.65460014	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.197999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	39	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	37	
k_CurrDiagLambdaMinMax_Volt_f32	16.1483002	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	6.93109989	
k_CurrDiagPrimErrorThresh_Volt_f32	64.4897003	
k_CurrDiagPrim_Cnt_Str.Threshold	8	
k_CurrDiagPrim_Cnt_Str.PStep	22	
k_CurrDiagPrim_Cnt_Str.NStep	132	
k_CurrDiagSecErrorThresh_Volt_f32	8.3810997	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	200	
k_CurrDiagSec_Cnt_Str.PStep	227	
k_CurrDiagSec_Cnt_Str.NStep	216	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.70119953		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	81.066597		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-38.5410004		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	16.1399994		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.8899994		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.871599972		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.83229995		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	2	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.3629532	11.3629551 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.0301447	10.0301456 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.5600281	13.5600271 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.53435326	8.5343523 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	200	200	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.27 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.2201996	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.235599995	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.3753004	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.228	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.6001997	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.218500003	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.0243001	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.209000006	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	40	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	38	
k_CurrDiagLambdaMinMax_Volt_f32	6.70650005	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.81279993	
k_CurrDiagPrimErrorThresh_Volt_f32	245.546494	
k_CurrDiagPrim_Cnt_Str.Threshold	130	
k_CurrDiagPrim_Cnt_Str.PStep	179	
k_CurrDiagPrim_Cnt_Str.NStep	194	
k_CurrDiagSecErrorThresh_Volt_f32	0	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.380299985	
k_CurrDiagSec_Cnt_Str.Threshold	101	
k_CurrDiagSec_Cnt_Str.PStep	141	
k_CurrDiagSec_Cnt_Str.NStep	161	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.44019985
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	25.5883999
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	145.473404
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	17.4699993
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.8799992
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.48010004

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.6855717	11.6855726 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.3108139	10.3108139 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.0939264	12.0939264 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.95788002	6.95788002 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.28 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.9160004
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.247999996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.974
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.239999995
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.316
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.230000004
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.39400005
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.219999999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	41
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	39
k_CurrDiagLambdaMinMax_Volt_f32	19.2807007
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.38750005
k_CurrDiagPrimErrorThresh_Volt_f32	81.0667038
k_CurrDiagPrim_Cnt_Str.Threshold	116
k_CurrDiagPrim_Cnt_Str.PStep	45
k_CurrDiagPrim_Cnt_Str.NStep	42
k_CurrDiagSecErrorThresh_Volt_f32	250
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	20
k_CurrDiagSec_Cnt_Str.PStep	33
k_CurrDiagSec_Cnt_Str.NStep	62
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-6.37669992
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-18.4909992
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-19.6452007
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	18.7999992
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.8700008
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.32069999
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.26550007

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.2464457	15.2464457 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.7276077	13.7276077 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.457881	15.457881 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.0090742	10.0090742 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.29 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.9160004
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.248999998
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.974
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.241999999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.316
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0253999997

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.39400005		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0599999987		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	42		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	40		
k_CurrDiagLambdaMinMax_Volt_f32	6.4994998		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.05410004		
k_CurrDiagPrimErrorThresh_Volt_f32	175.746399		
k_CurrDiagPrim_Cnt_Str.Threshold	47		
k_CurrDiagPrim_Cnt_Str.PStep	1		
k_CurrDiagPrim_Cnt_Str.NStep	249		
k_CurrDiagSecErrorThresh_Volt_f32	20		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.497900009		
k_CurrDiagSec_Cnt_Str.Threshold	179		
k_CurrDiagSec_Cnt_Str.PStep	220		
k_CurrDiagSec_Cnt_Str.NStep	237		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0289999992		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-7.84770012		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-54.0234985		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-51.1262016		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	20.1299992		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.8600006		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.193599999		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.55999994		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8202915	12.8202915 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.4071712	11.4071712 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.092061	15.092061 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.2803297	8.2803297 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.30 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.6118002	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.260399997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.5726995	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.252000004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.0318003	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.241500005	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.76370001	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.231000006	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	43	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	41	
k_CurrDiagLambdaMinMax_Volt_f32	15.9567003	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.13210011	
k_CurrDiagPrimErrorThresh_Volt_f32	131.048798	
k_CurrDiagPrim_Cnt_Str.Threshold	62	
k_CurrDiagPrim_Cnt_Str.PStep	48	



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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	43		
k_CurrDiagSecErrorThresh_Volt_f32	216.274307		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0		
k_CurrDiagSec_Cnt_Str.Threshold	197		
k_CurrDiagSec_Cnt_Str.PStep	185		
k_CurrDiagSec_Cnt_Str.NStep	251		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.192100003		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0309999995		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.29399991		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-133.176895		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	163.014496		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	21.4599991		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.8500004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.212500006		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.8118		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.65176296	6.65176249 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.38329077	5.38329124 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.2551632	15.2551632 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.65628338	9.65628338 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.31 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.3076	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.272799999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.1714001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.263999999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.7475996	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.252999991	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.13339996	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.241999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	44	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	42	
k_CurrDiagLambdaMinMax_Volt_f32	20	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.71420002	
k_CurrDiagPrimErrorThresh_Volt_f32	158.929199	
k_CurrDiagPrim_Cnt_Str.Threshold	131	
k_CurrDiagPrim_Cnt_Str.PStep	78	
k_CurrDiagPrim_Cnt_Str.NStep	170	
k_CurrDiagSecErrorThresh_Volt_f32	101.613998	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	242	
k_CurrDiagSec_Cnt_Str.PStep	168	
k_CurrDiagSec_Cnt_Str.NStep	117	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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Name	Input Value
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0320000015
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.97949982
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	82.7233963
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	15.9370003
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	22.7900009
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-25.8299999
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.117899999
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.38749981

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.8938675	14.8938684 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.3349705	13.3349714 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.8234577	16.8234577 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.0051174	11.0051174 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.33 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.0034008
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.2852
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.7700996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.275999993
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.4633999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.264499992
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.5031004
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.252999991
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	45
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	43
k_CurrDiagLambdaMinMax_Volt_f32	6.90180016
k_CurrDiagMtrEnvTblMax_MtrNm_f32	6.56969976
k_CurrDiagPrimErrorThresh_Volt_f32	64.4876022
k_CurrDiagPrim_Cnt_Str.Threshold	206
k_CurrDiagPrim_Cnt_Str.PStep	224
k_CurrDiagPrim_Cnt_Str.NStep	28
k_CurrDiagSecErrorThresh_Volt_f32	206.100006
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	178
k_CurrDiagSec_Cnt_Str.PStep	55
k_CurrDiagSec_Cnt_Str.NStep	73
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0329999998
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0454999991
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-5.62610006
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-86.8597031
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-64.1763
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	24.1200008
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-31
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.254799992

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.4076242	13.4076233 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.8744488	11.8744488 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.9343567	13.9343567 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.09797096	8.09797096 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	17	17	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 2.34 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.0034008
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.258599997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.7700996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.27700001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.4633999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.058699999

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TqRsDg\_Per1

Name	Input Value
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.5031004
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.064000003
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	46
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	44
k_CurrDiagLambdaMinMax_Volt_f32	4.49179983
k_CurrDiagMtrEnvTblMax_MtrNm_f32	7.84789991
k_CurrDiagPrimErrorThresh_Volt_f32	113.526497
k_CurrDiagPrim_Cnt_Str.Threshold	79
k_CurrDiagPrim_Cnt_Str.PStep	154
k_CurrDiagPrim_Cnt_Str.NStep	102
k_CurrDiagSecErrorThresh_Volt_f32	93.4389038
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.304100007
k_CurrDiagSec_Cnt_Str.Threshold	76
k_CurrDiagSec_Cnt_Str.PStep	169
k_CurrDiagSec_Cnt_Str.NStep	121
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.790199995
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0340000018
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-2.84750009
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-47.7765999
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	169.138397
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	25.4500008
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	31
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	3.50749993

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	90		
k_CurrDiagSecErrorThresh_Volt_f32	127.094101		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.0736000016		
k_CurrDiagSec_Cnt_Str.Threshold	225		
k_CurrDiagSec_Cnt_Str.PStep	102		
k_CurrDiagSec_Cnt_Str.NStep	144		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0350000001		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.060899999		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.38739967		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	113.910004		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-206.542694		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.5		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.2736001		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.2834473	17.2834492 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.6053562	15.6053572 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.28691864	7.28691816 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.60350752	1.60350716 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.36 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.6991997	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.297600001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.3688002	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.287999988	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.1791992	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.275999993	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.87279987	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.263999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	47	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	45	
k_CurrDiagLambdaMinMax_Volt_f32	18.6623993	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.3296001	
k_CurrDiagPrimErrorThresh_Volt_f32	214.330597	
k_CurrDiagPrim_Cnt_Str.Threshold	146	
k_CurrDiagPrim_Cnt_Str.PStep	146	
k_CurrDiagPrim_Cnt_Str.NStep	90	
k_CurrDiagSecErrorThresh_Volt_f32	127.094101	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.0736000016	
k_CurrDiagSec_Cnt_Str.Threshold	225	
k_CurrDiagSec_Cnt_Str.PStep	102	
k_CurrDiagSec_Cnt_Str.NStep	144	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0359999985		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.060899999		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.38739967		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	113.910004		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-206.542694		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	0		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.2736001		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.2834473	17.2834492 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.6053562	15.6053572 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.5139904	9.51398945 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.73374987	3.73374891 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.37 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.6991997	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.297600001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.3688002	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.287999988	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.1791992	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.275999993	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.87279987	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.263999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	47	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	45	
k_CurrDiagLambdaMinMax_Volt_f32	18.6623993	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.3296001	
k_CurrDiagPrimErrorThresh_Volt_f32	214.330597	
k_CurrDiagPrim_Cnt_Str.Threshold	146	
k_CurrDiagPrim_Cnt_Str.PStep	146	
k_CurrDiagPrim_Cnt_Str.NStep	90	
k_CurrDiagSecErrorThresh_Volt_f32	127.094101	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.0736000016	
k_CurrDiagSec_Cnt_Str.Threshold	225	
k_CurrDiagSec_Cnt_Str.PStep	102	
k_CurrDiagSec_Cnt_Str.NStep	144	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrDptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0370000005
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.060899999
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.38739967
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	113.910004
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-206.542694
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-12.5
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.2736001

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.2834473	17.2834492 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.6053562	15.6053572 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.9663048	12.9663038 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.03596449	7.03596306 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	



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## Test Step 2.38 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.3950005
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.310000002
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.9674997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.300000012
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.8950005
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.287499994
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.24250031
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.275000006
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	48
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	46
k_CurrDiagLambdaMinMax_Volt_f32	6.5163002
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.18550014
k_CurrDiagPrimErrorThresh_Volt_f32	30.9685001
k_CurrDiagPrim_Cnt_Str.Threshold	164
k_CurrDiagPrim_Cnt_Str.PStep	233
k_CurrDiagPrim_Cnt_Str.NStep	251
k_CurrDiagSecErrorThresh_Volt_f32	44.9258995
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	42
k_CurrDiagSec_Cnt_Str.PStep	165
k_CurrDiagSec_Cnt_Str.NStep	70
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0379999988
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.060899999
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.49170005
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-22.7693996
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-79.8511963
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-31
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	1.14999998
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.709800005
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.53980017

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.98249722	9.98249722 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.52235985	8.52235985 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.1933002	11.1933012 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.21161556	5.21161699 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.39 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	18.0907993
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.322400004
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.5662003
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.312000006
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	18.6107998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.298999995

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.61219978		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.286000013		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	49		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	47		
k_CurrDiagLambdaMinMax_Volt_f32	8.29529953		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.56409979		
k_CurrDiagPrimErrorThresh_Volt_f32	145.466095		
k_CurrDiagPrim_Cnt_Str.Threshold	77		
k_CurrDiagPrim_Cnt_Str.PStep	23		
k_CurrDiagPrim_Cnt_Str.NStep	207		
k_CurrDiagSecErrorThresh_Volt_f32	156.600494		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	168		
k_CurrDiagSec_Cnt_Str.PStep	118		
k_CurrDiagSec_Cnt_Str.NStep	105		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0390000008		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.060899999		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	6.65649986		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	196.565308		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-22.1826992		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	31		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	1.25		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.153699994		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.03539991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.9327297	14.9327307 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.2976789	13.2976789 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.399641	12.3996401 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.2446909	6.24468994 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.40 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.0907993
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.322299987
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.5662003
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.333000004
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.6107998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.300000012
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.6121998
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.268000007
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	50
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	48
k_CurrDiagLambdaMinMax_Volt_f32	0.624100029
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.63940001
k_CurrDiagPrimErrorThresh_Volt_f32	89.0516968
k_CurrDiagPrim_Cnt_Str.Threshold	100
k_CurrDiagPrim_Cnt_Str.PStep	36

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	152		
k_CurrDiagSecErrorThresh_Volt_f32	210.378494		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.372700006		
k_CurrDiagSec_Cnt_Str.Threshold	211		
k_CurrDiagSec_Cnt_Str.PStep	134		
k_CurrDiagSec_Cnt_Str.NStep	160		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.630299985		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0399999991		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.31690025		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	193.358795		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	7.52010012		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	11.25		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	1.14999998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.30340004		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.1389828	13.1389828 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.2574806	11.2574806 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.9147892	13.9147902 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.93538857	7.93538904 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.41 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.0907993	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.322299987	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.5662003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.333000004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.6107998	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.300000012	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.6121998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.268000007	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	50	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	48	
k_CurrDiagLambdaMinMax_Volt_f32	0.624100029	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.63940001	
k_CurrDiagPrimErrorThresh_Volt_f32	89.0516968	
k_CurrDiagPrim_Cnt_Str.Threshold	100	
k_CurrDiagPrim_Cnt_Str.PStep	36	
k_CurrDiagPrim_Cnt_Str.NStep	152	
k_CurrDiagSecErrorThresh_Volt_f32	210.378494	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.372700006	
k_CurrDiagSec_Cnt_Str.Threshold	211	
k_CurrDiagSec_Cnt_Str.PStep	134	
k_CurrDiagSec_Cnt_Str.NStep	160	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

# TEST DETAILS REPORT

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TqRsDg\_Per1

Name	Input Value
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.630299985
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0419999994
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.31690025
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	193.358795
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	7.52010012
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-11.25
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.1499996
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.30340004

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.1389828	13.1389828 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.2574806	11.2574806 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.9147892	13.9147902 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.93538857	7.93538904 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.43 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	18.7866001
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.334800005
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.1648998
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.324000001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.3265991
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.310499996
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.98190022
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.296999991
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	51
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	49
k_CurrDiagLambdaMinMax_Volt_f32	13.5771999
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	4.63059998
k_CurrDiagPrimErrorThresh_Volt_f32	197.122894
k_CurrDiagPrim_Cnt_Str.Threshold	217
k_CurrDiagPrim_Cnt_Str.PStep	168
k_CurrDiagPrim_Cnt_Str.NStep	30
k_CurrDiagSecErrorThresh_Volt_f32	184.701706
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	83
k_CurrDiagSec_Cnt_Str.PStep	61
k_CurrDiagSec_Cnt_Str.NStep	206
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.857200027
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0430000015
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.90770006
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	195.522598
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	54.4747009
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.92219996

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.0245829	12.0245829 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.4704437	10.4704428 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.7896433	10.7896442 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.5914917	4.5914917 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	21	21	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 2.44 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.4824009
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.347200006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.7635994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.335999995
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.0424004
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.321999997

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.3515997		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.307999998		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	52		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	50		
k_CurrDiagLambdaMinMax_Volt_f32	14.0865002		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.25580001		
k_CurrDiagPrimErrorThresh_Volt_f32	166.2379		
k_CurrDiagPrim_Cnt_Str.Threshold	122		
k_CurrDiagPrim_Cnt_Str.PStep	202		
k_CurrDiagPrim_Cnt_Str.NStep	220		
k_CurrDiagSecErrorThresh_Volt_f32	215.573502		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.902800024		
k_CurrDiagSec_Cnt_Str.Threshold	252		
k_CurrDiagSec_Cnt_Str.PStep	22		
k_CurrDiagSec_Cnt_Str.NStep	188		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.194000006		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0439999998		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.64319992		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	73.5863037		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-81.1405029		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.3500004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.93550014		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.6089439	17.6089439 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.8640938	15.8640947 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.8706055	16.8706055 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.3024759	10.302475 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.45 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	19.4824009
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.347200006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.7635994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.335999995
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.0424004
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.321999997
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.3515997
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.307999998
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	52
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	50
k_CurrDiagLambdaMinMax_Volt_f32	14.0865002
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.25580001
k_CurrDiagPrimErrorThresh_Volt_f32	166.2379
k_CurrDiagPrim_Cnt_Str.Threshold	122
k_CurrDiagPrim_Cnt_Str.PStep	202

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	220		
k_CurrDiagSecErrorThresh_Volt_f32	215.573502		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.902800024		
k_CurrDiagSec_Cnt_Str.Threshold	252		
k_CurrDiagSec_Cnt_Str.PStep	22		
k_CurrDiagSec_Cnt_Str.NStep	188		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.194000006		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0450000018		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.64319992		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	73.5863037		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-81.1405029		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.4499998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.0124500003		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.93550014		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.6089439	17.6089439 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.8640938	15.8640947 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.8585491	16.8585472 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.2909431	10.2909431 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.46 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.1781998	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.359600008	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	17.3623009	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.34799999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.7581997	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.333499998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.7213001	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.319000006	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	53	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	51	
k_CurrDiagLambdaMinMax_Volt_f32	13.8903999	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	4.83360004	
k_CurrDiagPrimErrorThresh_Volt_f32	53.4693985	
k_CurrDiagPrim_Cnt_Str.Threshold	11	
k_CurrDiagPrim_Cnt_Str.PStep	74	
k_CurrDiagPrim_Cnt_Str.NStep	225	
k_CurrDiagSecErrorThresh_Volt_f32	182.996399	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	249	
k_CurrDiagSec_Cnt_Str.PStep	122	
k_CurrDiagSec_Cnt_Str.NStep	182	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	



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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.00609999988		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0460000001		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.06739998		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-123.832603		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-48.3534012		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.5500002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	

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Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0469999984
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.72660005
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	35.7951012
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-154.601303
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	26.7800007
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.6499996
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.91869998
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.5205212	16.5205212 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.7966366	14.7966356 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.9014416	10.9014406 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.40450621	4.40450716 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.48 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	21.5697994
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.38440001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.5597
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.372000009
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	22.1898003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.3565
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.4607
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.340999991
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	55
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	53
k_CurrDiagLambdaMinMax_Volt_f32	1.18939996
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	186.005798
k_CurrDiagPrim_Cnt_Str.Threshold	146
k_CurrDiagPrim_Cnt_Str.PStep	79
k_CurrDiagPrim_Cnt_Str.NStep	25
k_CurrDiagSecErrorThresh_Volt_f32	9.60980034
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	223
k_CurrDiagSec_Cnt_Str.PStep	72
k_CurrDiagSec_Cnt_Str.NStep	179
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0480000004
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.2663002
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	165.736206
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	49.989399
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.45000005
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.230100006
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.6401

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8211632	12.8211632 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.2130346	11.2130346 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.8551159	13.8551149 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.14701605	7.14701605 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	30	30	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	125	125	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 2.49 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.396800011
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	19.1583996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.384000003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	22.9055996
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.368000001

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.8304005		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.351999998		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	56		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	54		
k_CurrDiagLambdaMinMax_Volt_f32	16.7404995		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	5.47830009		
k_CurrDiagPrimErrorThresh_Volt_f32	197.934601		
k_CurrDiagPrim_Cnt_Str.Threshold	153		
k_CurrDiagPrim_Cnt_Str.PStep	236		
k_CurrDiagPrim_Cnt_Str.NStep	188		
k_CurrDiagSecErrorThresh_Volt_f32	198.956299		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.746500015		
k_CurrDiagSec_Cnt_Str.Threshold	46		
k_CurrDiagSec_Cnt_Str.PStep	117		
k_CurrDiagSec_Cnt_Str.NStep	45		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.909600019		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0489999987		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.7579		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	16.6273003		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	192.113403		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.59000003		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.8500004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.986699998		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	3.31890011		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.0610828	-17.0610809 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.3868494	13.3868504 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.0070362	17.0070362 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.0867662	10.0867653 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	9	9	✔
target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.50 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.409200013	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	19.7570992	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.395999998	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	23.6214008	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.379500002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.2000999	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.363000005	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	57	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	55	
k_CurrDiagLambdaMinMax_Volt_f32	9.70720005	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.26819992	
k_CurrDiagPrimErrorThresh_Volt_f32	26.0926991	
k_CurrDiagPrim_Cnt_Str.Threshold	18	
k_CurrDiagPrim_Cnt_Str.PStep	219	

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	16		
k_CurrDiagSecErrorThresh_Volt_f32	164.276398		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	32		
k_CurrDiagSec_Cnt_Str.PStep	40		
k_CurrDiagSec_Cnt_Str.NStep	67		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.967299998		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0500000007		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.76340008		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	155.248703		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-214.259506		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.73000002		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	12.9499998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.0194000006		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.40020001		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.3426132	14.3426142 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.08923721	8.08923721 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.973196	10.973196 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.24775028	4.24775028 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	41	41	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.51 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	23.6571999	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.421600014	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.3558006	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.407999992	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	24.3372002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.391000003	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.5698004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.374000013	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	58	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	56	
k_CurrDiagLambdaMinMax_Volt_f32	15.6351004	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.97970009	
k_CurrDiagPrimErrorThresh_Volt_f32	181.097107	
k_CurrDiagPrim_Cnt_Str.Threshold	171	
k_CurrDiagPrim_Cnt_Str.PStep	234	
k_CurrDiagPrim_Cnt_Str.NStep	201	
k_CurrDiagSecErrorThresh_Volt_f32	158.549698	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	88	
k_CurrDiagSec_Cnt_Str.PStep	144	
k_CurrDiagSec_Cnt_Str.NStep	230	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.050999999		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	5.13140011		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-133.811996		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-185.200195		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.87		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.0500002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.888300002		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.20289993		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.2750816	20.2750835 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.4297543	18.4297543 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.70802975	8.7080307 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.0211668	2.02116752 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.52 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.421600014	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.3558006	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.407999992	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	24.3372002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.391000003	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.5698004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.374000013	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	59	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	57	
k_CurrDiagLambdaMinMax_Volt_f32	15.6351004	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.97970009	
k_CurrDiagPrimErrorThresh_Volt_f32	181.097107	
k_CurrDiagPrim_Cnt_Str.Threshold	171	
k_CurrDiagPrim_Cnt_Str.PStep	234	
k_CurrDiagPrim_Cnt_Str.NStep	201	
k_CurrDiagSecErrorThresh_Volt_f32	158.549698	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	88	
k_CurrDiagSec_Cnt_Str.PStep	144	
k_CurrDiagSec_Cnt_Str.NStep	230	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0520000011
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	5.13140011
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-133.811996
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-185.200195
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.87
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.1499996
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.888300002
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.20289993

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.59175873	6.59175825 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.4297543	18.4297543 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.70802975	8.7080307 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.0211668	2.02116752 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.53 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-23.6571999
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.421600014
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.3558006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.407999992
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	24.3372002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.391000003
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.5698004
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.374000013
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	60
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	58
k_CurrDiagLambdaMinMax_Volt_f32	15.6351004
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.97970009
k_CurrDiagPrimErrorThresh_Volt_f32	181.097107
k_CurrDiagPrim_Cnt_Str.Threshold	171
k_CurrDiagPrim_Cnt_Str.PStep	234
k_CurrDiagPrim_Cnt_Str.NStep	201
k_CurrDiagSecErrorThresh_Volt_f32	158.549698
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	88
k_CurrDiagSec_Cnt_Str.PStep	144
k_CurrDiagSec_Cnt_Str.NStep	230
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0529999994
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	5.13140011
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-133.811996
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-185.200195
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.87
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.888300002
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.20289993

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.09156609	-7.09156609 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.4297543	18.4297543 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.70802975	8.7080307 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.0211668	2.02116752 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.54 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	24.3530006
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.9545002
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.419999987
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	25.0529995
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.402500004



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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.9394999		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.38499999		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	61		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	59		
k_CurrDiagLambdaMinMax_Volt_f32	5.3046999		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019		
k_CurrDiagPrimErrorThresh_Volt_f32	91.7106018		
k_CurrDiagPrim_Cnt_Str.Threshold	198		
k_CurrDiagPrim_Cnt_Str.PStep	151		
k_CurrDiagPrim_Cnt_Str.NStep	47		
k_CurrDiagSecErrorThresh_Volt_f32	50.0918007		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.514699996		
k_CurrDiagSec_Cnt_Str.Threshold	120		
k_CurrDiagSec_Cnt_Str.PStep	68		
k_CurrDiagSec_Cnt_Str.NStep	249		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0540000014		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0930000022		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.89989996		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	104.896599		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	72.9876022		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.00999999		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.3500004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.755100012		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	24.3530006	24.3530006 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.92563629	9.92563629 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8340254	12.8340254 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.915483	5.915483 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	14	14	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.55 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	25.0487995	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	21.5531998	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.432000011	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	25.7688007	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.414000005	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.3092003	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.395999998	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	62	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	60	
k_CurrDiagLambdaMinMax_Volt_f32	2.12339997	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.26799989	
k_CurrDiagPrimErrorThresh_Volt_f32	95.8022003	
k_CurrDiagPrim_Cnt_Str.Threshold	242	
k_CurrDiagPrim_Cnt_Str.PStep	175	

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	57		
k_CurrDiagSecErrorThresh_Volt_f32	109.191803		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	245		
k_CurrDiagSec_Cnt_Str.PStep	18		
k_CurrDiagSec_Cnt_Str.NStep	189		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.215000004		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0549999997		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.77330017		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-186.621201		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-1.23529994		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.1500001		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.4499998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.609399974		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.2203002		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.11409569	3.1140964 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.1595259	13.1595268 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.9796047	15.9796047 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.87962341	8.87962341 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	5	5	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.56 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	25.7446003	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.458799988	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	22.1518993	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.444000006	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	26.4846001	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.425500005	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.6788998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.407000005	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	63	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	61	
k_CurrDiagLambdaMinMax_Volt_f32	2.62220001	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.77320004	
k_CurrDiagPrimErrorThresh_Volt_f32	44.2933998	
k_CurrDiagPrim_Cnt_Str.Threshold	102	
k_CurrDiagPrim_Cnt_Str.PStep	250	
k_CurrDiagPrim_Cnt_Str.NStep	151	
k_CurrDiagSecErrorThresh_Volt_f32	150.275803	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.413899988	
k_CurrDiagSec_Cnt_Str.Threshold	85	
k_CurrDiagSec_Cnt_Str.PStep	217	
k_CurrDiagSec_Cnt_Str.NStep	172	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.791800022		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0560000017		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.80389977		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-172.453705		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-32.9006004		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.28999996		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.5500002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.0581		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.7299128	12.7299118 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.1521988	11.1521997 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.0996561	14.0996571 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.04435205	7.04435253 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.57 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	26.4403992	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.471199989	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.456	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	27.2003994	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.437000006	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.0486002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.418000013	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	64	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	62	
k_CurrDiagLambdaMinMax_Volt_f32	5.94890022	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019	
k_CurrDiagPrimErrorThresh_Volt_f32	49.8344994	
k_CurrDiagPrim_Cnt_Str.Threshold	207	
k_CurrDiagPrim_Cnt_Str.PStep	148	
k_CurrDiagPrim_Cnt_Str.NStep	123	
k_CurrDiagSecErrorThresh_Volt_f32	109.184097	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	96	
k_CurrDiagSec_Cnt_Str.PStep	32	
k_CurrDiagSec_Cnt_Str.NStep	156	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.057		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.40280008		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-197.110596		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	136.034897		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.43000007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.6499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.551999986		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.22730017		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	16.7848053	16.7848053 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-14.1513023	-14.1513014 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.7069244	15.7069225 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.55229378	8.55229187 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.58 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	27.1362
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.483599991
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.467999995
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	27.9162006
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.448500007
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.4182997
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.42899999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	65
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	63
k_CurrDiagLambdaMinMax_Volt_f32	6.4368
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.72819996
k_CurrDiagPrimErrorThresh_Volt_f32	25.2296009
k_CurrDiagPrim_Cnt_Str.Threshold	50
k_CurrDiagPrim_Cnt_Str.PStep	200
k_CurrDiagPrim_Cnt_Str.NStep	131
k_CurrDiagSecErrorThresh_Volt_f32	33.0410995
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.300099999
k_CurrDiagSec_Cnt_Str.Threshold	169
k_CurrDiagSec_Cnt_Str.PStep	236
k_CurrDiagSec_Cnt_Str.NStep	70
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.565100014
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0579999983
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.75049996
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	16.2607002
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	151.596893
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.43000007
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.924799979
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.87599993

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.2287045	14.2287045 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.7006168	16.7006168 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.1896744	14.1896744 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.07917881	7.07917881 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.59 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	27.8320007
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.495999992
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	23.948
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.4799999989
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	28.632
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.460000008

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.7880001		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.439999998		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	66		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	64		
k_CurrDiagLambdaMinMax_Volt_f32	3.75650001		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.03910017		
k_CurrDiagPrimErrorThresh_Volt_f32	232.801697		
k_CurrDiagPrim_Cnt_Str.Threshold	96		
k_CurrDiagPrim_Cnt_Str.PStep	207		
k_CurrDiagPrim_Cnt_Str.NStep	65		
k_CurrDiagSecErrorThresh_Volt_f32	216.536896		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	195		
k_CurrDiagSec_Cnt_Str.PStep	80		
k_CurrDiagSec_Cnt_Str.NStep	202		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.954599977		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0590000004		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.06700003		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	143.132507		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-166.757401		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.43000007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.8500004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.64680004		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.1641045	12.1641045 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.6498404	10.6498404 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.7332897	13.7332897 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.62841988	6.62841988 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	1	1	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

Test Step 2.60 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	27.8320007
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.495999992
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.479999989
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	28.632
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.460000008
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.7880001
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.439999998
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	67
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	65
k_CurrDiagLambdaMinMax_Volt_f32	3.75650001
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.03910017
k_CurrDiagPrimErrorThresh_Volt_f32	232.801697
k_CurrDiagPrim_Cnt_Str.Threshold	96
k_CurrDiagPrim_Cnt_Str.PStep	207

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	65		
k_CurrDiagSecErrorThresh_Volt_f32	216.536896		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	195		
k_CurrDiagSec_Cnt_Str.PStep	80		
k_CurrDiagSec_Cnt_Str.NStep	202		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.954599977		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0599999987		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.06700003		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	143.132507		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-166.757401		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.43000007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	13.9499998		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.64680004		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.1641045	12.1641045 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.80312002	-1.80312002 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.7332897	13.7332897 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.62841988	6.62841988 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	2	2	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.61 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	27.8320007	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.495999992	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-23.948	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.479999989	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	28.632	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.460000008	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.7880001	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.439999998	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	68	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	66	
k_CurrDiagLambdaMinMax_Volt_f32	3.75650001	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	5.03910017	
k_CurrDiagPrimErrorThresh_Volt_f32	232.801697	
k_CurrDiagPrim_Cnt_Str.Threshold	96	
k_CurrDiagPrim_Cnt_Str.PStep	207	
k_CurrDiagPrim_Cnt_Str.NStep	65	
k_CurrDiagSecErrorThresh_Volt_f32	216.536896	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	195	
k_CurrDiagSec_Cnt_Str.PStep	80	
k_CurrDiagSec_Cnt_Str.NStep	202	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	



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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.954599977		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.06700003		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	143.132507		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-166.757401		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.43000007		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	2.1500001		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.64680004		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.1641045	12.1641045 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-14.2560806	-14.2560797 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.7332897	13.7332897 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.62841988	6.62841988 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	3	3	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.62 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	28.5277996	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.508400023	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	24.5466995	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	29.3477993	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.471500009	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.1576996	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.451000005	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	69	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	67	
k_CurrDiagLambdaMinMax_Volt_f32	8.88399982	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.05570006	
k_CurrDiagPrimErrorThresh_Volt_f32	134.375702	
k_CurrDiagPrim_Cnt_Str.Threshold	70	
k_CurrDiagPrim_Cnt_Str.PStep	197	
k_CurrDiagPrim_Cnt_Str.NStep	187	
k_CurrDiagSecErrorThresh_Volt_f32	224.411102	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	13	
k_CurrDiagSec_Cnt_Str.PStep	186	
k_CurrDiagSec_Cnt_Str.NStep	238	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	



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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.34890008
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	79.9971008
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-78.0020981
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.56999993
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	2.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.57159996

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	10.9047318	10.9047318 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	24.5466995	24.5466995 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.3215046	11.3215065 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.31489372	4.31489325 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.63 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	29.2236004
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.520799994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	25.1453991
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	30.0636005
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.48300001
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.5274
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.462000012
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	70
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	68
k_CurrDiagLambdaMinMax_Volt_f32	0.929199994
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	2.40750003
k_CurrDiagPrimErrorThresh_Volt_f32	96.0951996
k_CurrDiagPrim_Cnt_Str.Threshold	246
k_CurrDiagPrim_Cnt_Str.PStep	243
k_CurrDiagPrim_Cnt_Str.NStep	161
k_CurrDiagSecErrorThresh_Volt_f32	16.0160999
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.855499983
k_CurrDiagSec_Cnt_Str.Threshold	22
k_CurrDiagSec_Cnt_Str.PStep	236
k_CurrDiagSec_Cnt_Str.NStep	223
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.739199996
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-6.86000013
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-159.349594
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-198.407593
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.71000004
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	2.3499999
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.95660001
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.5230999

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	13.5200224	13.5200214 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.19758606	0.197585627 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.0940781	15.0940781 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.77245045	5.77245092 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.64 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	29.9193993
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.533200026
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	25.7441006
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.515999973
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	30.7793999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.494500011

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.8971004		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.47299999		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	71		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	69		
k_CurrDiagLambdaMinMax_Volt_f32	6.44820023		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.19729996		
k_CurrDiagPrimErrorThresh_Volt_f32	3.67490005		
k_CurrDiagPrim_Cnt_Str.Threshold	168		
k_CurrDiagPrim_Cnt_Str.PStep	164		
k_CurrDiagPrim_Cnt_Str.NStep	162		
k_CurrDiagSecErrorThresh_Volt_f32	238.580795		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	51		
k_CurrDiagSec_Cnt_Str.PStep	123		
k_CurrDiagSec_Cnt_Str.NStep	162		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.53780007		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-167.113007		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	28.4148998		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.8499999		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	22.4500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.377999991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	17.4045563	17.4045563 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.7874165	15.7874155 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.3703518	12.3703518 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.74677372	3.746773 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	168	168	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.65 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-0.587400019	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.545599997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.536800027	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.527999997	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.505999982	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.8971004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.483999997	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	72	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	70	
k_CurrDiagLambdaMinMax_Volt_f32	12.1154003	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019	
k_CurrDiagPrimErrorThresh_Volt_f32	8.53390026	
k_CurrDiagPrim_Cnt_Str.Threshold	125	
k_CurrDiagPrim_Cnt_Str.PStep	147	

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	119		
k_CurrDiagSecErrorThresh_Volt_f32	135.560196		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.845499992		
k_CurrDiagSec_Cnt_Str.Threshold	96		
k_CurrDiagSec_Cnt_Str.PStep	17		
k_CurrDiagSec_Cnt_Str.NStep	135		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0216000006		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.102899998		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.0318999998		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	131.775101		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	164.5672		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.99000001		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	22.5499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.22289991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.41641283	-4.41641283 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.26901293	-4.26901293 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-19.8674488	-19.8674488 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.84743118	3.84743118 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	125	125	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.66 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.17480004	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.558000028	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.07360005	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.540000021	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.517499983	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	16.2667999	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.495000005	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	73	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	71	
k_CurrDiagLambdaMinMax_Volt_f32	5.87900019	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.21310043	
k_CurrDiagPrimErrorThresh_Volt_f32	230.724792	
k_CurrDiagPrim_Cnt_Str.Threshold	176	
k_CurrDiagPrim_Cnt_Str.PStep	180	
k_CurrDiagPrim_Cnt_Str.NStep	161	
k_CurrDiagSecErrorThresh_Volt_f32	178.1642	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.114299998	
k_CurrDiagSec_Cnt_Str.Threshold	192	
k_CurrDiagSec_Cnt_Str.PStep	114	
k_CurrDiagSec_Cnt_Str.NStep	124	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.057500001		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.606700003		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	144.754105		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	34.9384003		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.13000011		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	22.6499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.88349998		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.44710004		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-3.79974413	-3.79974365 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.66851616	-3.66851592 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.9151173	11.9151173 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.30462933	5.30462885 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.67 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.7622	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.5704	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.61039996	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.551999986	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.12940001	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.528999984	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.6365004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.505999982	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	74	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	72	
k_CurrDiagLambdaMinMax_Volt_f32	11.9798002	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.53209996	
k_CurrDiagPrimErrorThresh_Volt_f32	93.1610031	
k_CurrDiagPrim_Cnt_Str.Threshold	183	
k_CurrDiagPrim_Cnt_Str.PStep	182	
k_CurrDiagPrim_Cnt_Str.NStep	153	
k_CurrDiagSecErrorThresh_Volt_f32	81.0378036	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.964900017	
k_CurrDiagSec_Cnt_Str.Threshold	158	
k_CurrDiagSec_Cnt_Str.PStep	15	
k_CurrDiagSec_Cnt_Str.NStep	40	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	6.20720005
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	105.574898
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-219.722
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.26999998
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	22.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.93550003

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.44725084	-5.44725609 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.26037121	-5.26037693 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.3343668	-5.3343668 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.180652618	0.180652201 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	32	32	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

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TqRsDg\_Per1

## Test Step 2.68 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.7622
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.5704
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.61039996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.551999986
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.528999984
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.6365004
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.505999982
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	75
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	73
k_CurrDiagLambdaMinMax_Volt_f32	11.9798002
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.53209996
k_CurrDiagPrimErrorThresh_Volt_f32	93.1610031
k_CurrDiagPrim_Cnt_Str.Threshold	183
k_CurrDiagPrim_Cnt_Str.PStep	182
k_CurrDiagPrim_Cnt_Str.NStep	153
k_CurrDiagSecErrorThresh_Volt_f32	81.0378036
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.964900017
k_CurrDiagSec_Cnt_Str.Threshold	158
k_CurrDiagSec_Cnt_Str.PStep	15
k_CurrDiagSec_Cnt_Str.NStep	40
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.99984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	6.20720005
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	105.574898
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-219.722
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.26999998
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	22.8500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.93550003

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.44725609	-5.44726133 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.26037693	-5.26038218 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-6.33731413	-6.33731413 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.180652618	0.180652201 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	33	33	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 2.69 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.7622
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.5704
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.61039996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.551999986
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.12940001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.528999984

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.6365004		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.505999982		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	76		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	74		
k_CurrDiagLambdaMinMax_Volt_f32	11.9798002		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.53209996		
k_CurrDiagPrimErrorThresh_Volt_f32	93.1610031		
k_CurrDiagPrim_Cnt_Str.Threshold	183		
k_CurrDiagPrim_Cnt_Str.PStep	182		
k_CurrDiagPrim_Cnt_Str.NStep	153		
k_CurrDiagSecErrorThresh_Volt_f32	81.0378036		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.964900017		
k_CurrDiagSec_Cnt_Str.Threshold	158		
k_CurrDiagSec_Cnt_Str.PStep	15		
k_CurrDiagSec_Cnt_Str.NStep	40		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	6.20720005		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	105.574898		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-219.722		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.26999998		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	22.9500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.93550003		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.44726181	-5.44726706 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.2603817	-5.26038742 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.34026146	-7.34026146 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.180652618	0.180652201 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	34	34	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.70 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.7622	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.582799971	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.14720011	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.56400001	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.83920002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	17.0062008	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.51700002	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	77	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	75	
k_CurrDiagLambdaMinMax_Volt_f32	14.4403	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.23360002	
k_CurrDiagPrimErrorThresh_Volt_f32	220.888306	
k_CurrDiagPrim_Cnt_Str.Threshold	179	
k_CurrDiagPrim_Cnt_Str.PStep	236	



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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	253		
k_CurrDiagSecErrorThresh_Volt_f32	76.422699		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	247		
k_CurrDiagSec_Cnt_Str.PStep	108		
k_CurrDiagSec_Cnt_Str.NStep	47		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-7.41499996		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-24.2231998		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	132.086899		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.26999998		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.0499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.87480021		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.70623875	2.70623755 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.39423561	2.39423442 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.83920002	-2.83920002 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.44027138	3.44026947 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	28	28	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

Test Step 2.71 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.7622
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.595200002
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.68400002
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.575999975
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-3.54900002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.3759003
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.527999997
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	78
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	76
k_CurrDiagLambdaMinMax_Volt_f32	16.9575996
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.20349979
k_CurrDiagPrimErrorThresh_Volt_f32	49.4110985
k_CurrDiagPrim_Cnt_Str.Threshold	186
k_CurrDiagPrim_Cnt_Str.PStep	71
k_CurrDiagPrim_Cnt_Str.NStep	216
k_CurrDiagSecErrorThresh_Volt_f32	84.0635986
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.925300002
k_CurrDiagSec_Cnt_Str.Threshold	60
k_CurrDiagSec_Cnt_Str.PStep	111
k_CurrDiagSec_Cnt_Str.NStep	230
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32

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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.264299989		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.53060007		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	87.3658981		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-155.384995		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.26999998		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.1499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	3.98099995		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.37982368	9.37982464 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.62956047	8.62956142 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.67382979	-2.67382836 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.97851324	3.97851396 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.72 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.3970003	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.607599974	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.22079992	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.588	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.25880003	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.563499987	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.7455997	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.538999975	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	79	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	77	
k_CurrDiagLambdaMinMax_Volt_f32	15.1466999	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.91989994	
k_CurrDiagPrimErrorThresh_Volt_f32	101.291298	
k_CurrDiagPrim_Cnt_Str.Threshold	35	
k_CurrDiagPrim_Cnt_Str.PStep	53	
k_CurrDiagPrim_Cnt_Str.NStep	98	
k_CurrDiagSecErrorThresh_Volt_f32	1.3168	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	238	
k_CurrDiagSec_Cnt_Str.PStep	6	
k_CurrDiagSec_Cnt_Str.NStep	143	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

# TEST DETAILS REPORT

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.8441999
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	117.451599
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-191.146194
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.41000009
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.868700027
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.67709994

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.345647812	0.345642388 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.83935833	-6.83936357 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.3941307	-10.3941317 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.82734871	-1.82734966 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	83	83	✓
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

# TEST DETAILS REPORT

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TqRsDg\_Per1

## Test Step 2.73 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.3970003
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.618700027
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.75760007
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.591199994
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.9685998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.568499982
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.545700014
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	80
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	78
k_CurrDiagLambdaMinMax_Volt_f32	2.04419994
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.7428
k_CurrDiagPrimErrorThresh_Volt_f32	62.6176987
k_CurrDiagPrim_Cnt_Str.Threshold	30
k_CurrDiagPrim_Cnt_Str.PStep	161
k_CurrDiagPrim_Cnt_Str.NStep	231
k_CurrDiagSecErrorThresh_Volt_f32	162.341599
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	8
k_CurrDiagSec_Cnt_Str.PStep	141
k_CurrDiagSec_Cnt_Str.NStep	155
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.70990002
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-102.677597
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	157.605392
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.54999995
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.3500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.256599993
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.18179989

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.13562202	7.1356225 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.32757616	-0.327575833 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-3.30607843	-3.30607867 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-15.1988201	-15.1988201 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.74 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-16.9869995
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.629400015
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.29440022
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.608699977
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.67840004
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.572899997

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	31		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.512499988		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	81		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	79		
k_CurrDiagLambdaMinMax_Volt_f32	16.8948002		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.20840001		
k_CurrDiagPrimErrorThresh_Volt_f32	125.8004		
k_CurrDiagPrim_Cnt_Str.Threshold	122		
k_CurrDiagPrim_Cnt_Str.PStep	38		
k_CurrDiagPrim_Cnt_Str.NStep	157		
k_CurrDiagSecErrorThresh_Volt_f32	238.976807		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	23		
k_CurrDiagSec_Cnt_Str.PStep	132		
k_CurrDiagSec_Cnt_Str.NStep	20		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.6795001		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-182.736099		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	13.1341		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.69000006		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.4500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.9023		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.976800025		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.33820534	4.33820486 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.60346603	8.60346603 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.1042757	-12.1042757 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.45391655	6.45391512 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	59	59	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.75 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-16.9869995	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.629400015	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.29440022	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.608699977	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.67840004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.572899997	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.25500011	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.512499988	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	82	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	80	
k_CurrDiagLambdaMinMax_Volt_f32	16.8948002	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.20840001	
k_CurrDiagPrimErrorThresh_Volt_f32	125.8004	
k_CurrDiagPrim_Cnt_Str.Threshold	122	
k_CurrDiagPrim_Cnt_Str.PStep	38	

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	157		
k_CurrDiagSecErrorThresh_Volt_f32	238.976807		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	23		
k_CurrDiagSec_Cnt_Str.PStep	132		
k_CurrDiagSec_Cnt_Str.NStep	20		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0549999997		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.6795001		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-182.736099		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	13.1341		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.69000006		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.5499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.9023		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.976800025		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.33820534	4.33820486 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.60346603	8.60346603 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.1042757	-12.1042757 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.55927181	-7.55927229 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	60	60	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.76 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-16.9869995	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.629400015	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.29440022	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.608699977	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.67840004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.572899997	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.512499988	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	83	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	81	
k_CurrDiagLambdaMinMax_Volt_f32	16.8948002	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.20840001	
k_CurrDiagPrimErrorThresh_Volt_f32	125.8004	
k_CurrDiagPrim_Cnt_Str.Threshold	122	
k_CurrDiagPrim_Cnt_Str.PStep	38	
k_CurrDiagPrim_Cnt_Str.NStep	157	
k_CurrDiagSecErrorThresh_Volt_f32	238.976807	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	23	
k_CurrDiagSec_Cnt_Str.PStep	132	
k_CurrDiagSec_Cnt_Str.NStep	20	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0560000017		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.6795001		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-182.736099		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	13.1341		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.69000006		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.6499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.9023		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.976800025		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.057
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.6795001
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-182.736099
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	13.1341
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.69000006
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.9023
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.976800025

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.33820534	4.33820486 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.60346603	8.60346603 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.1042757	-12.1042757 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-9.74351692	-9.74351597 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	62	62	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓



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TqRsDg\_Per1

## Test Step 2.78 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.34960008
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.629400015
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.83120012
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.600000024
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-6.38819981
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.574999988
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.8547001
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	85
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	83
k_CurrDiagLambdaMinMax_Volt_f32	12.901
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.65880013
k_CurrDiagPrimErrorThresh_Volt_f32	204.578995
k_CurrDiagPrim_Cnt_Str.Threshold	175
k_CurrDiagPrim_Cnt_Str.PStep	235
k_CurrDiagPrim_Cnt_Str.NStep	158
k_CurrDiagSecErrorThresh_Volt_f32	196.754395
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.735599995
k_CurrDiagSec_Cnt_Str.Threshold	3
k_CurrDiagSec_Cnt_Str.PStep	173
k_CurrDiagSec_Cnt_Str.NStep	188
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.892199993
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0579999983
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	5.86759996
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-64.0346985
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-81.365303
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.82999992
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.8500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.40240002

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-8.34066105	-8.34065914 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-9.05345154	-9.05345058 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.1330595	-10.1330605 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.8547001	18.8547001 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.79 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.93700004
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.629400015
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.36800003
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.611999989
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.09800005
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.586499989

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	19.2243996		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	86		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	84		
k_CurrDiagLambdaMinMax_Volt_f32	1.64559996		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.61549997		
k_CurrDiagPrimErrorThresh_Volt_f32	88.8255005		
k_CurrDiagPrim_Cnt_Str.Threshold	168		
k_CurrDiagPrim_Cnt_Str.PStep	147		
k_CurrDiagPrim_Cnt_Str.NStep	97		
k_CurrDiagSecErrorThresh_Volt_f32	183.934601		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	100		
k_CurrDiagSec_Cnt_Str.PStep	250		
k_CurrDiagSec_Cnt_Str.NStep	189		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.551100016		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0590000004		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.77789974		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-83.2789001		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	104.560699		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	3.97000003		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	23.9500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.2809		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.12419271	-2.12419295 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.0898912	-3.0898912 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.96987867	-1.96987855 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.40524864	2.40524888 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.80 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-3.5244
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.644800007
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.90479994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.624000013
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.80779982
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.59799999
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	19.594101
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.572000027
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	87
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	85
k_CurrDiagLambdaMinMax_Volt_f32	19.8092995
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.27139997
k_CurrDiagPrimErrorThresh_Volt_f32	58.6512985
k_CurrDiagPrim_Cnt_Str.Threshold	164
k_CurrDiagPrim_Cnt_Str.PStep	224

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	52		
k_CurrDiagSecErrorThresh_Volt_f32	123.167503		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	130		
k_CurrDiagSec_Cnt_Str.PStep	231		
k_CurrDiagSec_Cnt_Str.NStep	69		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.923099995		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0599999987		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-7.16029978		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-71.4386978		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	32.4370995		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.11000013		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.0499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.1699		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.6170001		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-0.742447376	-0.742446303 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.72721815	-1.7272172 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.9846964	-14.9846973 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.94464493	-2.94464469 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	35	35	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	16	16	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.81 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.69920015	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.644800007	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.90479994	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.648000002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.22739983	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.620999992	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.3334999	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.593999982	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	86	
k_CurrDiagLambdaMinMax_Volt_f32	10.2522001	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.29460001	
k_CurrDiagPrimErrorThresh_Volt_f32	114.588501	
k_CurrDiagPrim_Cnt_Str.Threshold	175	
k_CurrDiagPrim_Cnt_Str.PStep	45	
k_CurrDiagPrim_Cnt_Str.NStep	100	
k_CurrDiagSecErrorThresh_Volt_f32	152.666901	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.370700002	
k_CurrDiagSec_Cnt_Str.Threshold	115	
k_CurrDiagSec_Cnt_Str.PStep	109	
k_CurrDiagSec_Cnt_Str.NStep	31	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.382600009		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0610000007		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.1256500004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.800000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-27.2872009		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	49.0124016		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.11000013		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.1499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.800000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.87992287	2.87992454 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.49316549	2.49316692 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.86943054	2.8694315 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.3452082	14.3452082 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	55	55	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.82 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.28660011	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.657199979	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.90479994	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.660000026	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.93719959	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.632499993	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.7031994	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.605000019	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	255	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	87	
k_CurrDiagLambdaMinMax_Volt_f32	9.26900005	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.29160023	
k_CurrDiagPrimErrorThresh_Volt_f32	157.862198	
k_CurrDiagPrim_Cnt_Str.Threshold	19	
k_CurrDiagPrim_Cnt_Str.PStep	28	
k_CurrDiagPrim_Cnt_Str.NStep	221	
k_CurrDiagSecErrorThresh_Volt_f32	73.1022034	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.385800004	
k_CurrDiagSec_Cnt_Str.Threshold	187	
k_CurrDiagSec_Cnt_Str.PStep	185	
k_CurrDiagSec_Cnt_Str.NStep	205	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.359699994	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.061999999
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-7.86089993
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	117.956497
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	198.462799
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.25
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.45970011

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.36941242	3.36941361 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.19610357	3.19610453 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-6.57896709	-6.57896614 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.37798023	5.37798166 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	34	34	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

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TqRsDg\_Per1

## Test Step 2.83 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.87400007
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.65990001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.44159985
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.669700027
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.64700003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.6329
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	21.0729008
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.609700024
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	66
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	88
k_CurrDiagLambdaMinMax_Volt_f32	3.15820003
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.09280014
k_CurrDiagPrimErrorThresh_Volt_f32	15.0957003
k_CurrDiagPrim_Cnt_Str.Threshold	94
k_CurrDiagPrim_Cnt_Str.PStep	155
k_CurrDiagPrim_Cnt_Str.NStep	151
k_CurrDiagSecErrorThresh_Volt_f32	243.6996
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	204
k_CurrDiagSec_Cnt_Str.PStep	237
k_CurrDiagSec_Cnt_Str.NStep	162
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.063000001
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-3.16779995
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-176.328506
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	169.874496
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.38999987
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.3500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.04960012

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.0863485336	0.0863487795 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.0126132965	-0.0126139401 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.90733862	-5.90733862 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.29919815	6.29919815 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.84 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-6.46140003
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.665199995
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.44159985
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.671500027
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-11.3568001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.641200006

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	21.4426003		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.612299979		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	32		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0		
k_CurrDiagLambdaMinMax_Volt_f32	10.6099005		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.1624999		
k_CurrDiagPrimErrorThresh_Volt_f32	27.2935009		
k_CurrDiagPrim_Cnt_Str.Threshold	8		
k_CurrDiagPrim_Cnt_Str.PStep	168		
k_CurrDiagPrim_Cnt_Str.NStep	173		
k_CurrDiagSecErrorThresh_Volt_f32	234.259903		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	204		
k_CurrDiagSec_Cnt_Str.PStep	117		
k_CurrDiagSec_Cnt_Str.NStep	60		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.064000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-2.12669992		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	34.1253014		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	181.5383		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.53000021		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.4500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.42609978		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.62036991	-1.62037039 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.56801653	-1.56801748 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.17303276	-7.17303324 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.35472488	5.35472441 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.85 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.04879999	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.66960001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.44159985	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.671500027	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.0665998	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.643999994	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	21.8122997	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.615999997	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	33	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	255	
k_CurrDiagLambdaMinMax_Volt_f32	9.08430004	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019	
k_CurrDiagPrimErrorThresh_Volt_f32	93.8177032	
k_CurrDiagPrim_Cnt_Str.Threshold	160	
k_CurrDiagPrim_Cnt_Str.PStep	149	



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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	140		
k_CurrDiagSecErrorThresh_Volt_f32	120.334503		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	106		
k_CurrDiagSec_Cnt_Str.PStep	35		
k_CurrDiagSec_Cnt_Str.NStep	19		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0649999976		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-5.27400017		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-40.8450012		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-99.7120972		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.67000008		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.5499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	3.39599991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.75392389	3.75392365 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.98404217	3.98404193 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.145999	-10.145999 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.77999496	2.77999449 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	236	236	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 2.86 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.63619995	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.681999981	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.97840023	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.671500027	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.7763996	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.655499995	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.598699987	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.626999974	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	34	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	154	
k_CurrDiagLambdaMinMax_Volt_f32	7.61009979	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.07990003	
k_CurrDiagPrimErrorThresh_Volt_f32	8.4545002	
k_CurrDiagPrim_Cnt_Str.Threshold	135	
k_CurrDiagPrim_Cnt_Str.PStep	131	
k_CurrDiagPrim_Cnt_Str.NStep	194	
k_CurrDiagSecErrorThresh_Volt_f32	57.4068985	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	35	
k_CurrDiagSec_Cnt_Str.PStep	55	
k_CurrDiagSec_Cnt_Str.NStep	202	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	



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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.510900021		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0659999996		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.57299995		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-189.669601		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-198.496201		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.80999994		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.6499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.97550011		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.61839962	-7.61839962 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.40258646	-7.40258646 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.586950302	0.586950779 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.54821682	4.54821777 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.87 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-8.22360039	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.694400012	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.51520014	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.671500027	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-13.4862003	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.666999996	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.19739997	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.638000011	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	35	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	13	
k_CurrDiagLambdaMinMax_Volt_f32	0	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.36219978	
k_CurrDiagPrimErrorThresh_Volt_f32	157.228806	
k_CurrDiagPrim_Cnt_Str.Threshold	116	
k_CurrDiagPrim_Cnt_Str.PStep	202	
k_CurrDiagPrim_Cnt_Str.NStep	20	
k_CurrDiagSecErrorThresh_Volt_f32	189.613495	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.749100029	
k_CurrDiagSec_Cnt_Str.Threshold	236	
k_CurrDiagSec_Cnt_Str.PStep	212	
k_CurrDiagSec_Cnt_Str.NStep	98	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0670000017
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0879999995
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.38439989
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	137.698502
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	31.3992996
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.94999981
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.672100008
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.80679989

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.5131321	-2.5131321 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.46874285	-2.46874309 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.49090481	-4.49090481 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.433458805	-0.433458805 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	15	15	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

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TqRsDg\_Per1

## Test Step 2.88 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-8.81099987
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.706799984
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.05200005
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.684000015
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.7763996
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.678499997
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.79610002
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.648999989
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	36
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	14
k_CurrDiagLambdaMinMax_Volt_f32	20
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1.05190003
k_CurrDiagPrimErrorThresh_Volt_f32	79.9145966
k_CurrDiagPrim_Cnt_Str.Threshold	181
k_CurrDiagPrim_Cnt_Str.PStep	47
k_CurrDiagPrim_Cnt_Str.NStep	239
k_CurrDiagSecErrorThresh_Volt_f32	9.78450012
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.520699978
k_CurrDiagSec_Cnt_Str.Threshold	173
k_CurrDiagSec_Cnt_Str.PStep	224
k_CurrDiagSec_Cnt_Str.NStep	25
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.237800002
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0680000037
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0879999995
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.381599993
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	146.848404
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-155.729202
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.94999981
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.8500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.5526152	11.5526152 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.1355686	11.1355677 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.2391329	-10.2391357 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.49536324	-6.4953661 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

T

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.89 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.39840031
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.719200015
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.58880043
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.69599998
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.7763996
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.689999998

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.39479995		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.660000026		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	37		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	15		
k_CurrDiagLambdaMinMax_Volt_f32	3.25		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.02289999		
k_CurrDiagPrimErrorThresh_Volt_f32	67.6437988		
k_CurrDiagPrim_Cnt_Str.Threshold	9		
k_CurrDiagPrim_Cnt_Str.PStep	0		
k_CurrDiagPrim_Cnt_Str.NStep	222		
k_CurrDiagSecErrorThresh_Volt_f32	8.71140003		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	68		
k_CurrDiagSec_Cnt_Str.PStep	201		
k_CurrDiagSec_Cnt_Str.NStep	102		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0689999983		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0879999995		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.33519983		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	94.8238983		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	193.419693		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	4.94999981		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	24.9500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.63929987		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.27704811	-4.27705002 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.19613504	-4.19613647 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-6.20318413	-6.20318413 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.95923209	-2.95923209 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.90 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.98579979	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.731599987	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-9.12559986	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.708000004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.1960001	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.701499999	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-2.99349999	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.671000004	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	38	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	16	
k_CurrDiagLambdaMinMax_Volt_f32	16.9780006	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	2.63930011	
k_CurrDiagPrimErrorThresh_Volt_f32	5.65840006	
k_CurrDiagPrim_Cnt_Str.Threshold	56	
k_CurrDiagPrim_Cnt_Str.PStep	131	

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	197		
k_CurrDiagSecErrorThresh_Volt_f32	49.1733017		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.83859998		
k_CurrDiagSec_Cnt_Str.Threshold	94		
k_CurrDiagSec_Cnt_Str.PStep	213		
k_CurrDiagSec_Cnt_Str.NStep	86		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0700000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.11560011		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-143.940796		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-134.629593		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.09000015		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.0499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.720000029		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.37820005		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	9.7409153	9.74091625 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	9.35574818	9.35574913 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-16.1475735	-16.1475735 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-12.3771	-12.377099 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	56	56	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	0	0	

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.91 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.5732002	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.738600016	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-9.66240025	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.712300003	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-15.6155996	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.707799971	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.59220004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.676900029	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	39	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	17	
k_CurrDiagLambdaMinMax_Volt_f32	0.59009999	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1.4526	
k_CurrDiagPrimErrorThresh_Volt_f32	221.319794	
k_CurrDiagPrim_Cnt_Str.Threshold	213	
k_CurrDiagPrim_Cnt_Str.PStep	75	
k_CurrDiagPrim_Cnt_Str.NStep	98	
k_CurrDiagSecErrorThresh_Volt_f32	51.3726997	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	34	
k_CurrDiagSec_Cnt_Str.PStep	136	
k_CurrDiagSec_Cnt_Str.NStep	108	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0710000023		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.980199993		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	75.5554962		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	207.263397		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.23000002		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.1499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.743600011		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.05060005		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-3.19968224	-3.19968224 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.20020103	-3.2002008 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.98055172	-4.98055124 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.56007838	-1.5600785 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.92 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-11.1605997	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.74119997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-10.1991997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.768700004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.0352001	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.712800026	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.19089985	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.680499971	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	40	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	18	
k_CurrDiagLambdaMinMax_Volt_f32	9.13700008	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	4.47489977	
k_CurrDiagPrimErrorThresh_Volt_f32	34.2827988	
k_CurrDiagPrim_Cnt_Str.Threshold	115	
k_CurrDiagPrim_Cnt_Str.PStep	108	
k_CurrDiagPrim_Cnt_Str.NStep	64	
k_CurrDiagSecErrorThresh_Volt_f32	223.081802	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	139	
k_CurrDiagSec_Cnt_Str.PStep	90	
k_CurrDiagSec_Cnt_Str.NStep	43	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0451210923	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0719999969
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-2.1415
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	218.397598
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	88.5361023
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.36999989
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.85410023

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.66070747	-9.66070747 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-9.38268661	-9.38268661 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-11.4053631	-11.4053631 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.55672073	-7.55672121 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.93 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-11.7480001
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.744000018
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-10.7360001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.720000029
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.1960001
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.717800021
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.7895999
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.681999981
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	41
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	19
k_CurrDiagLambdaMinMax_Volt_f32	9.53470039
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	78.3648987
k_CurrDiagPrim_Cnt_Str.Threshold	109
k_CurrDiagPrim_Cnt_Str.PStep	79
k_CurrDiagPrim_Cnt_Str.NStep	113
k_CurrDiagSecErrorThresh_Volt_f32	35.844799
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	99
k_CurrDiagSec_Cnt_Str.PStep	212
k_CurrDiagSec_Cnt_Str.NStep	217
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.845000029
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0250000004
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.02589989
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-105.934799
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-98.6990967
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.51000023
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.3500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.533500016
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.51910019

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.101305	-10.101305 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-9.87106419	-9.87106419 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.8501186	-10.8501186 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.02575874	-8.02575779 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.94 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.3353996
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.756399989
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-11.2728004
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.731999993
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.9057999
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.722800016



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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.38829994		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.693000019		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	42		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	20		
k_CurrDiagLambdaMinMax_Volt_f32	7.66349983		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1.34350002		
k_CurrDiagPrimErrorThresh_Volt_f32	163.767502		
k_CurrDiagPrim_Cnt_Str.Threshold	117		
k_CurrDiagPrim_Cnt_Str.PStep	197		
k_CurrDiagPrim_Cnt_Str.NStep	175		
k_CurrDiagSecErrorThresh_Volt_f32	37.4477005		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	15		
k_CurrDiagSec_Cnt_Str.PStep	133		
k_CurrDiagSec_Cnt_Str.NStep	65		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.608799994		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.73950005		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	85.918602		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-29.0541		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.6500001		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.4500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-8.80157471	-8.80157471 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.63079262	-8.63079262 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.40728951	1.40728998 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.65659714	3.65659738 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 2.95 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.9228001
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.76880002
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-11.8095999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.744000018
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-15.6155996
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.727800012
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.98699999
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.703999996
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	43
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	21
k_CurrDiagLambdaMinMax_Volt_f32	13.9989004
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.99289989
k_CurrDiagPrimErrorThresh_Volt_f32	242.926102
k_CurrDiagPrim_Cnt_Str.Threshold	41
k_CurrDiagPrim_Cnt_Str.PStep	50

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	242		
k_CurrDiagSecErrorThresh_Volt_f32	191.275803		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	30		
k_CurrDiagSec_Cnt_Str.PStep	67		
k_CurrDiagSec_Cnt_Str.NStep	36		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0549999997		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-5.81610012		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	172.477402		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	108.130096		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.78999996		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.5499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.908599973		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-12.9665203	-12.9665203 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-12.68013	-12.680131 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.4389658	-14.4389658 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-11.6273775	-11.6273775 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.96 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-13.5101995	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.781199992	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-12.3464003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.755999982	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-16.3253994	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.7245	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.58570004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.714999974	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	44	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	22	
k_CurrDiagLambdaMinMax_Volt_f32	17.7653999	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.09520006	
k_CurrDiagPrimErrorThresh_Volt_f32	50.4140015	
k_CurrDiagPrim_Cnt_Str.Threshold	152	
k_CurrDiagPrim_Cnt_Str.PStep	239	
k_CurrDiagPrim_Cnt_Str.NStep	228	
k_CurrDiagSecErrorThresh_Volt_f32	53.9435997	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.772700012	
k_CurrDiagSec_Cnt_Str.Threshold	170	
k_CurrDiagSec_Cnt_Str.PStep	9	
k_CurrDiagSec_Cnt_Str.NStep	220	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.00499999989		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.380299985		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-116.6185		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-156.592804		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	5.92999983		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.6499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.296499997		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.06899834	2.068995 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.85041046	1.8504076 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.368679	-17.368679 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-14.5791855	-14.5791855 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.97 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.0976	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.793600023	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-12.8831997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.768000007	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.0352001	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.736000001	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.18440008	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.726000011	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	45	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	23	
k_CurrDiagLambdaMinMax_Volt_f32	10.3353996	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	6.08640003	
k_CurrDiagPrimErrorThresh_Volt_f32	100.871696	
k_CurrDiagPrim_Cnt_Str.Threshold	216	
k_CurrDiagPrim_Cnt_Str.PStep	96	
k_CurrDiagPrim_Cnt_Str.NStep	207	
k_CurrDiagSecErrorThresh_Volt_f32	105.296303	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.287	
k_CurrDiagSec_Cnt_Str.Threshold	15	
k_CurrDiagSec_Cnt_Str.PStep	104	
k_CurrDiagSec_Cnt_Str.NStep	128	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrldptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0590999983
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.43230009
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-180.884094
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	169.524796
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.07000017
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.91899991

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.29242802	5.29242897 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.94868469	4.94868469 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.72480011	-9.72480202 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.1250062	-7.12500858 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

## Test Step 2.98 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-14.6850004
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.805999994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-13.4200001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.779999971
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.7450008
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.747500002
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.78310013
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.736999989
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	46
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	24
k_CurrDiagLambdaMinMax_Volt_f32	14.4540005
k_CurrDiagMtrEnvTblMax_MtrNm_f32	2.26869988
k_CurrDiagPrimErrorThresh_Volt_f32	197.2966
k_CurrDiagPrim_Cnt_Str.Threshold	229
k_CurrDiagPrim_Cnt_Str.PStep	4
k_CurrDiagPrim_Cnt_Str.NStep	249
k_CurrDiagSecErrorThresh_Volt_f32	201.732498
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	53
k_CurrDiagSec_Cnt_Str.PStep	46
k_CurrDiagSec_Cnt_Str.NStep	90
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0581
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.00749999983
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	0.221599996
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	133.009995
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-203.987305
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.21000004
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.8500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.268000007
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.10680008

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.45795155	1.45794725 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.21551132	1.21550703 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-15.2849779	-15.2849779 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-12.6995535	-12.6995535 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.99 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-15.2723999
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.809599996
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-13.9568005
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.780900002
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-18.4547997
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.749100029

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Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.3817997		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.739899993		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	47		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	25		
k_CurrDiagLambdaMinMax_Volt_f32	13.2993002		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	6.50460005		
k_CurrDiagPrimErrorThresh_Volt_f32	152.939896		
k_CurrDiagPrim_Cnt_Str.Threshold	7		
k_CurrDiagPrim_Cnt_Str.PStep	96		
k_CurrDiagPrim_Cnt_Str.NStep	44		
k_CurrDiagSecErrorThresh_Volt_f32	149.253098		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	113		
k_CurrDiagSec_Cnt_Str.PStep	95		
k_CurrDiagSec_Cnt_Str.NStep	233		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0571000017		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.80000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-207.276993		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	176.964096		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.3499999		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	25.9500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.166899994		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	6.46169996		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.85924911	7.85924816 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.32748795	7.32748842 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.0228577	-10.0228624 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.50642681	-7.5064311 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	3	3	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.100 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-15.8598003	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.814599991	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-14.4935999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.789099991	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-19.1646004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.752799988	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.98050022	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.742500007	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	48	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	26	
k_CurrDiagLambdaMinMax_Volt_f32	8.09759998	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.29819965	
k_CurrDiagPrimErrorThresh_Volt_f32	100.318604	
k_CurrDiagPrim_Cnt_Str.Threshold	176	
k_CurrDiagPrim_Cnt_Str.PStep	229	

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	44		
k_CurrDiagSecErrorThresh_Volt_f32	145.266296		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.720399976		
k_CurrDiagSec_Cnt_Str.Threshold	165		
k_CurrDiagSec_Cnt_Str.PStep	175		
k_CurrDiagSec_Cnt_Str.NStep	151		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.173999995		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0560999997		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	84.3350983		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-207.948196		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.48999977		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.0499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.72969997		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.65589905	3.65589809 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.33311558	3.33311582 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.8333626	-10.8333626 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.3249464	-8.3249464 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	4	4	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

Test Step 2.101 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-16.4472008	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.818400025	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-15.0304003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.791999996	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-19.8743992	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.759000003	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-20.9545002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.745100021	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	49	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	27	
k_CurrDiagLambdaMinMax_Volt_f32	16.8876991	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	7.26319981	
k_CurrDiagPrimErrorThresh_Volt_f32	172.069702	
k_CurrDiagPrim_Cnt_Str.Threshold	183	
k_CurrDiagPrim_Cnt_Str.PStep	61	
k_CurrDiagPrim_Cnt_Str.NStep	84	
k_CurrDiagSecErrorThresh_Volt_f32	249.314194	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	129	
k_CurrDiagSec_Cnt_Str.PStep	200	
k_CurrDiagSec_Cnt_Str.NStep	108	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	



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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0551000014		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	4.4000001		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-63.5671997		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-31.5995007		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.63000011		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.1499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.46509981		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.09786606	8.09786034 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.60078335	7.60077858 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.6074944	-17.6074944 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-17.9243259	-17.9243279 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.102 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.0345993	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.830799997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-15.5671997	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.80400002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-20.5841999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.770500004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-21.5531998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.747699976	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	50	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	28	
k_CurrDiagLambdaMinMax_Volt_f32	4.40010023	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	3.38080001	
k_CurrDiagPrimErrorThresh_Volt_f32	136.717102	
k_CurrDiagPrim_Cnt_Str.Threshold	17	
k_CurrDiagPrim_Cnt_Str.PStep	111	
k_CurrDiagPrim_Cnt_Str.NStep	154	
k_CurrDiagSecErrorThresh_Volt_f32	84.4705963	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.0644000024	
k_CurrDiagSec_Cnt_Str.Threshold	243	
k_CurrDiagSec_Cnt_Str.PStep	82	
k_CurrDiagSec_Cnt_Str.NStep	133	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.978600025	



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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0540999994
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.0830999985
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	0
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-64.2248001
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-188.794098
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.76999998
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.22860003

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.773349762	0.773348749 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.486509323	0.486509204 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-8.11435127	-8.11435127 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.72782803	-8.72782707 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

# TEST DETAILS REPORT

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TqRsDg\_Per1

## Test Step 2.103 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-17.6219997
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.843200028
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-16.1040001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.815999985
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-21.2940006
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.782000005
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-22.1518993
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.75029999
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	51
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	29
k_CurrDiagLambdaMinMax_Volt_f32	19.9029007
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	189.3853
k_CurrDiagPrim_Cnt_Str.Threshold	105
k_CurrDiagPrim_Cnt_Str.PStep	87
k_CurrDiagPrim_Cnt_Str.NStep	252
k_CurrDiagSecErrorThresh_Volt_f32	121.413696
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.368400007
k_CurrDiagSec_Cnt_Str.Threshold	66
k_CurrDiagSec_Cnt_Str.PStep	104
k_CurrDiagSec_Cnt_Str.NStep	226
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.877900004
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0531000011
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.4000001
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	30.5291996
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-198.827194
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	6.90999985
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.3500004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.0286999997
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.06639957

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-19.5452557	-19.5452557 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-19.2039032	-19.2039032 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-20.2061596	-20.2061596 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-20.4644756	-20.4644756 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 2.104 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-18.2094002
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.855599999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-16.6408005
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.828000009
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-22.0037994
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.793500006

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-22.7506008		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.759000003		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	52		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	30		
k_CurrDiagLambdaMinMax_Volt_f32	1.21200001		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	2.87739992		
k_CurrDiagPrimErrorThresh_Volt_f32	238.611893		
k_CurrDiagPrim_Cnt_Str.Threshold	32		
k_CurrDiagPrim_Cnt_Str.PStep	153		
k_CurrDiagPrim_Cnt_Str.NStep	233		
k_CurrDiagSecErrorThresh_Volt_f32	175.410294		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	88		
k_CurrDiagSec_Cnt_Str.PStep	117		
k_CurrDiagSec_Cnt_Str.NStep	125		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0601999983		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.052099999		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.00730000017		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	3.24720001		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-220		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-184.689301		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	7.05000019		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.4500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.65579987		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-1.5924511	-1.59245014 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-1.85868168	-1.85868156 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.50550652	-5.50550652 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.40280342	-6.40280247 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.105 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-18.7968006	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.867999971	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-17.1776009	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.839999974	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-22.7136002	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.805000007	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-23.3493004	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.769999981	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	53	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	31	
k_CurrDiagLambdaMinMax_Volt_f32	4.01940012	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.57070005	
k_CurrDiagPrimErrorThresh_Volt_f32	81.0507965	
k_CurrDiagPrim_Cnt_Str.Threshold	236	
k_CurrDiagPrim_Cnt_Str.PStep	148	

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	215		
k_CurrDiagSecErrorThresh_Volt_f32	130.755096		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.127000004		
k_CurrDiagSec_Cnt_Str.Threshold	58		
k_CurrDiagSec_Cnt_Str.PStep	16		
k_CurrDiagSec_Cnt_Str.NStep	134		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0511000007		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.21619987		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	220		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-206.781204		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	7.19000006		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.5499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.31640005		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.97001743	-5.97001696 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-6.12471199	-6.12471199 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-7.66476822	-7.66476917 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-8.46527672	-8.46527672 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.106 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-19.3841991	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.880400002	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-17.7143993	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.851999998	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-23.4234009	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.816500008	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-23.948	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.781000018	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	54	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	32	
k_CurrDiagLambdaMinMax_Volt_f32	1.83019996	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019	
k_CurrDiagPrimErrorThresh_Volt_f32	2.94039989	
k_CurrDiagPrim_Cnt_Str.Threshold	34	
k_CurrDiagPrim_Cnt_Str.PStep	79	
k_CurrDiagPrim_Cnt_Str.NStep	29	
k_CurrDiagSecErrorThresh_Volt_f32	85.2795029	
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.522099972	
k_CurrDiagSec_Cnt_Str.Threshold	146	
k_CurrDiagSec_Cnt_Str.PStep	238	
k_CurrDiagSec_Cnt_Str.NStep	14	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

## TEST DETAILS REPORT

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TqRsDg\_Per1

Name	Input Value
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0491000004
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.16190004
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	0
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	185.996506
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	7.46999979
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.75
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.61330009

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-3.37870598	-3.37870049 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-3.67998314	-3.67998099 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.62069702	3.6206975 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.32799911	2.3279984 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

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TqRsDg\_Per1

Test Step 2.108 (Repeat Count = 1)				✓
Name	Input Value			
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg			
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-20.559			
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.905200005			
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-18.7880001			
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.875999987			
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-24.8430004			
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.839500001			
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-25.1453991			
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.802999973			
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	56			
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	34			
k_CurrDiagLambdaMinMax_Volt_f32	8.69149971			
k_CurrDiagMtrEnvTblMax_MtrNm_f32	3.32270002			
k_CurrDiagPrimErrorThresh_Volt_f32	182.872894			
k_CurrDiagPrim_Cnt_Str.Threshold	9			
k_CurrDiagPrim_Cnt_Str.PStep	59			
k_CurrDiagPrim_Cnt_Str.NStep	38			
k_CurrDiagSecErrorThresh_Volt_f32	7.30900002			
k_CurrDiagSecTrqLmtThresh_Uls_f32	1			
k_CurrDiagSec_Cnt_Str.Threshold	256			
k_CurrDiagSec_Cnt_Str.PStep	232			
k_CurrDiagSec_Cnt_Str.NStep	90			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32			
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32			
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.102799997			
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0480999984			
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004			
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.08720005			
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-103.371101			
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	73.5254974			
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	7.61000013			
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.8500004			
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1			
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	4.76230001			
Name	Actual Value	Expected Value	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*		✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0		✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0		✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	5.9185524	5.9185524		

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-25.7441006		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.81400001		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	57		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	35		
k_CurrDiagLambdaMinMax_Volt_f32	17.0440006		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.28919983		
k_CurrDiagPrimErrorThresh_Volt_f32	126.015503		
k_CurrDiagPrim_Cnt_Str.Threshold	34		
k_CurrDiagPrim_Cnt_Str.PStep	104		
k_CurrDiagPrim_Cnt_Str.NStep	140		
k_CurrDiagSecErrorThresh_Volt_f32	113.755898		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.467200011		
k_CurrDiagSec_Cnt_Str.Threshold	153		
k_CurrDiagSec_Cnt_Str.PStep	38		
k_CurrDiagSec_Cnt_Str.NStep	190		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0471000001		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	5.62099981		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	123.5103		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-220		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	7.75		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	26.9500008		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.481900007		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-6.96796799	-6.96797657 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-7.22131729	-7.22132587 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-18.3118114	-18.3118114 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-18.66222	-18.6622181 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.110 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.08739996	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0372000001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.79610002	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0359999985	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.1473999	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0344999991	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.10909998	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0329999998	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	58	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	36	
k_CurrDiagLambdaMinMax_Volt_f32	12.3964996	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	2.40400004	
k_CurrDiagPrimErrorThresh_Volt_f32	46.5528984	
k_CurrDiagPrim_Cnt_Str.Threshold	236	
k_CurrDiagPrim_Cnt_Str.PStep	233	



# TEST DETAILS REPORT

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TqRsDg\_Per1

Name	Input Value		
k_CurrDiagPrim_Cnt_Str.NStep	246		
k_CurrDiagSecErrorThresh_Volt_f32	5.93599987		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	200		
k_CurrDiagSec_Cnt_Str.PStep	162		
k_CurrDiagSec_Cnt_Str.NStep	61		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0461000018		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	7.40129995		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-90.3571014		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	220		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	7.88999987		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	27.0499992		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.79200006		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.47089839	2.47089863 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.17771435	2.17771435 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	1.97771668	1.97771657 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.98105824	0.981058061 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.111 (Repeat Count = 1)		
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.87400007	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.65990001	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	14.3970003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.669700027	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.6470003	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.6329	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	21.0729008	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.609700024	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	59	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	37	
k_CurrDiagLambdaMinMax_Volt_f32	12.2580004	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.26670003	
k_CurrDiagPrimErrorThresh_Volt_f32	15.3579998	
k_CurrDiagPrim_Cnt_Str.Threshold	253	
k_CurrDiagPrim_Cnt_Str.PStep	126	
k_CurrDiagPrim_Cnt_Str.NStep	84	
k_CurrDiagSecErrorThresh_Volt_f32	181.145798	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	225	
k_CurrDiagSec_Cnt_Str.PStep	186	
k_CurrDiagSec_Cnt_Str.NStep	42	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	

# TEST DETAILS REPORT

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.474400014		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.800000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	47.1259003		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	110.25		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	8.02999973		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	27.1499996		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.12150002		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-2.35628915	-2.35628891 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	4.39146233	4.3914628 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.84957504	3.84957457 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.6984558	15.6984558 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	

Test Step 2.112 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.87400007	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.522199988	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.3970003	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.544099987	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.64700031	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.254799992	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	22.0729008	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.333299994	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	60	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	38	
k_CurrDiagLambdaMinMax_Volt_f32	13.2580004	
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	1.10749996	
k_CurrDiagPrimErrorThresh_Volt_f32	211.753998	
k_CurrDiagPrim_Cnt_Str.Threshold	111	
k_CurrDiagPrim_Cnt_Str.PStep	224	
k_CurrDiagPrim_Cnt_Str.NStep	23	
k_CurrDiagSecErrorThresh_Volt_f32	147.328705	
k_CurrDiagSecTrqLmtThresh_Uls_f32	1	
k_CurrDiagSec_Cnt_Str.Threshold	149	
k_CurrDiagSec_Cnt_Str.PStep	65	
k_CurrDiagSec_Cnt_Str.NStep	215	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32	
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32	
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741	

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TqRsDg\_Per1

Name	Input Value
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	2.55430007
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	16.9717999
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	0
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	8.17000008
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	27.25
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.665700018
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.95430005

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.971823692	0.971820533 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.4585342	10.4585314 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-10.5670834	-10.5670824 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.2971115	10.2971106 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	37	37	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

# TEST DETAILS REPORT

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TqRsDg\_Per1

## Test Step 2.113 (Repeat Count = 1) ✓

Name	Input Value		
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.6118002		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.260399997		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	12.5726995		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.252000004		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	15.0318003		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.241500005		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.76370001		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.063699998		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	61		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	39		
k_CurrDiagLambdaMinMax_Volt_f32	14.2580004		
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	7.34880018		
k_CurrDiagPrimErrorThresh_Volt_f32	176.944397		
k_CurrDiagPrim_Cnt_Str.Threshold	94		
k_CurrDiagPrim_Cnt_Str.PStep	5		
k_CurrDiagPrim_Cnt_Str.NStep	41		
k_CurrDiagSecErrorThresh_Volt_f32	138.155701		
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.269800007		
k_CurrDiagSec_Cnt_Str.Threshold	173		
k_CurrDiagSec_Cnt_Str.PStep	238		
k_CurrDiagSec_Cnt_Str.NStep	102		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_Estr_Ohm_f32	target_TqRsDg_Per1_Estr_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.664799988		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_Estr_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-3.97280002		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	145.736298		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-110.25		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	8.31000042		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	27.3500004		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.32960033		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	*none*	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	7.09410429	7.09410429 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.81136322	5.8113637 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.8449278	14.8449268 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.17738724	8.17738724 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	20	20	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✔

T <span style="float: right;">✓</span>				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

### Test Case 3: Path Test

## Specification

```
"Performance Metrics (With "None" Instrumentation and "WithPS"
Environment)
```

```
CPU Cycles:
TS3.1  2105.00 Cycles
TS3.2  2009.00 Cycles
TS3.3  2008.00 Cycles
TS3.4  1971.00 Cycles
TS3.5  1944.00 Cycles
TS3.6  1941.00 Cycles
TS3.7  1947.00 Cycles
TS3.8  1944.00 Cycles
TS3.9  1934.00 Cycles
TS3.10 1500.00 Cycles
TS3.11 1521.00 Cycles
```

### Description

Vector Description:

```

TS3.1"((DervLambdaAlphaDiagLmtld_Volt_T_f32 = Limit_m(DervLambdaAlphaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32)==>True, DervLambdaBetaDiagLmtld_Volt_T_f32 = Limit_m(DervLambdaBetaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32)==>True, ((Min_m(TrqLimitMinRatio_Uls_T_f32,OutputRampMult_Uls_T_f32)) < k_CurrDiagSecTrqLmtThresh_Uls_f32)==>True, (((Abs_f32_m(DervLambdaAlphaDiagPrimFilt_Volt_T_f32)) > k_CurrDiagPrimErrorThresh_Volt_f32)==>F || ((AbsDervLambdaBetaDiagPrimFilt_Volt_T_f32)> k_CurrDiagPrimErrorThresh_Volt_f32)==>F), TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16, k_CurrDiagPrim_Cnt_Str)==>False, (((Abs_f32_m(DervLambdaAlphaDiagSecFilt_Volt_T_f32)) > k_CurrDiagSecErrorThresh_Volt_f32)==>F || (AbsDervLambdaBetaDiagSecFilt_Volt_T_f32 > k_CurrDiagSecErrorThresh_Volt_f32)==>T && (TrqLmtFlag_Cnt_T_lgc ==TRUE)==>T), TrqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagPStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str)==>False, (DiagFailed_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str) ==TRUE)==>True, (CurrReasFltActive_Cnt_T_u8 > D_ZERO_CNT_U8) ==>True, MtrCurlldptSig_Cnt_T_u08 = Limit_m(MtrCurlldptSig_Cnt_T_u08, D_ZERO_CNT_U8, D_TWO_CNT_U08);==>False"
TS3.2"((Min_m(TrqLimitMinRatio_Uls_T_f32,OutputRampMult_Uls_T_f32)) < k_CurrDiagSecTrqLmtThresh_Uls_f32)==>Flase (((Abs_f32_m(DervLambdaAlphaDiagSecFilt_Volt_T_f32)) > k_CurrDiagSecErrorThresh_Volt_f32)==>False || (AbsDervLambdaBetaDiagSecFilt_Volt_T_f32 > k_CurrDiagSecErrorThresh_Volt_f32)==>True && (TrqLmtFlag_Cnt_T_lgc ==TRUE))==>False TrqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str);==>Flase (CurrReasFltActive_Cnt_T_u8 > D_ZERO_CNT_U8)==>False (TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 == D_ZERO_CNT_U16)==>True && (TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 == D_ZERO_CNT_U16)==>True"
TS3.3"DervLambdaAlphaDiagLmtld_Volt_T_f32 = Limit_m(DervLambdaAlphaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32);==>False (((Abs_f32_m(DervLambdaAlphaDiagPrimFilt_Volt_T_f32)) > k_CurrDiagPrimErrorThresh_Volt_f32)==>True || ((AbsDervLambdaBetaDiagPrimFilt_Volt_T_f32)> k_CurrDiagPrimErrorThresh_Volt_f32)==>True TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 = DiagPStep_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16, k_CurrDiagPrim_Cnt_Str);==>False (DiagFailed_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16,k_CurrDiagPrim_Cnt_Str) ==TRUE)==>True"
TS3.4"DervLambdaBetaDiagLmtld_Volt_T_f32 = Limit_m(DervLambdaBetaDiag_Volt_T_f32, -k_CurrDiagLambdaMinMax_Volt_f32, k_CurrDiagLambdaMinMax_Volt_f32);==>False (((Abs_f32_m(DervLambdaAlphaDiagSecFilt_Volt_T_f32)) > k_CurrDiagSecErrorThresh_Volt_f32)==>False || (AbsDervLambdaBetaDiagSecFilt_Volt_T_f32 > k_CurrDiagSecErrorThresh_Volt_f32) ==>False&&(TrqLmtFlag_Cnt_T_lgc ==TRUE))==>True"
TS3.5((Min_m(TrqLimitMinRatio_Uls_T_f32,OutputRampMult_Uls_T_f32)) < k_CurrDiagSecTrqLmtThresh_Uls_f32)==>False
TS3.6"TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16, k_CurrDiagPrim_Cnt_Str);==>True (TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 == D_ZERO_CNT_U16)==>False && (TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 == D_ZERO_CNT_U16)==>True"
TS3.7"TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 = DiagPStep_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16, k_CurrDiagPrim_Cnt_Str);==>True (DiagFailed_m(TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16,k_CurrDiagPrim_Cnt_Str) ==TRUE)==>False"
TS3.8"TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagNStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str);==>True (TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16 == D_ZERO_CNT_U16)==>True && (TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 == D_ZERO_CNT_U16)==>False"
TS3.9(((Abs_f32_m(DervLambdaAlphaDiagSecFilt_Volt_T_f32)) > k_CurrDiagSecErrorThresh_Volt_f32)==>True || (AbsDervLambdaBetaDiagSecFilt_Volt_T_f32 > k_CurrDiagSecErrorThresh_Volt_f32) ==>True&&(TrqLmtFlag_Cnt_T_lgc ==TRUE))==>True
TS3.10"TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagPStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str);==>True TrqRsDg_CurrDiagSecPNAccum_Cnt_M_u16 = DiagPStep_m(TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16,k_CurrDiagSec_Cnt_Str);==>False"
TS3.11(((Abs_f32_m(DervLambdaAlphaDiagPrimFilt_Volt_T_f32)) > k_CurrDiagPrimErrorThresh_Volt_f32) ==>False || ((AbsDervLambdaBetaDiagPrimFilt_Volt_T_f32)> k_CurrDiagPrimErrorThresh_Volt_f32)==>False && ((AbsDervLambdaBetaDiagPrimFilt_Volt_T_f32) > k_CurrDiagPrimErrorThresh_Volt_f32)==>True && (TrqLmtFlag_Cnt_T_lgc ==TRUE))==>True"

```

### Test Step 3.1 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-10
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	255
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	255
k_CurrDiagLambdaMinMax_Volt_f32	20
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1
k_CurrDiagPrimErrorThresh_Volt_f32	250

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Name	Input Value		
k_CurrDiagPrim_Cnt_Str.Threshold	255		
k_CurrDiagPrim_Cnt_Str.PStep	255		
k_CurrDiagPrim_Cnt_Str.NStep	255		
k_CurrDiagSecErrorThresh_Volt_f32	12		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	255		
k_CurrDiagSec_Cnt_Str.PStep	255		
k_CurrDiagSec_Cnt_Str.NStep	255		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	0		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	220		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	31		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	0		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0.200000003		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	2	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.4753532	20.4753532 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-10	-10 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.4753532	20.4753532 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.4753532	20.4753532 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	255	255	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	0	0	✔

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 3.2 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-10
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	255
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	255
k_CurrDiagLambdaMinMax_Volt_f32	20
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1
k_CurrDiagPrimErrorThresh_Volt_f32	250
k_CurrDiagPrim_Cnt_Str.Threshold	255
k_CurrDiagPrim_Cnt_Str.PStep	255
k_CurrDiagPrim_Cnt_Str.NStep	255
k_CurrDiagSecErrorThresh_Volt_f32	12
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	255
k_CurrDiagSec_Cnt_Str.PStep	255
k_CurrDiagSec_Cnt_Str.NStep	255
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32

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Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	0		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	220		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	31		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	0		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.4753532	20.4753532 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-10	-10 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	20.4753532	20.4753532 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	20.4753532	20.4753532 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔



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Name	Input Value
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0250000004
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.00499999989
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-8.80000019
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-220
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-220
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-31
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-31
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	0

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-31	-31 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08.value	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

Test Step 3.4 (Repeat Count = 1)	
Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	31
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.956786096
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	255
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	255
k_CurrDiagLambdaMinMax_Volt_f32	20
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	250
k_CurrDiagPrim_Cnt_Str.Threshold	255
k_CurrDiagPrim_Cnt_Str.PStep	255
k_CurrDiagPrim_Cnt_Str.NStep	255
k_CurrDiagSecErrorThresh_Volt_f32	250
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	255
k_CurrDiagSec_Cnt_Str.PStep	255
k_CurrDiagSec_Cnt_Str.NStep	255
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.0750000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	220
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	220
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	31
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	31



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TqRsDg\_Per1

Name	Input Value		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	8.80000019		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	8.09439468	8.09439373 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	8.09439468	8.09439373 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-4.78488541	-4.78488684 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	-4.78488541	-4.78488684 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 3.5 (Repeat Count = 1)

Name	Input Value		
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.695800006		
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0124000004		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.598699987		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0120000001		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.715799987		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0115		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.369700015		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0109999999		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	16		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	14		
k_CurrDiagLambdaMinMax_Volt_f32	2.72390008		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	1		
k_CurrDiagPrimErrorThresh_Volt_f32	43.7410011		
k_CurrDiagPrim_Cnt_Str.Threshold	22		
k_CurrDiagPrim_Cnt_Str.PStep	80		
k_CurrDiagPrim_Cnt_Str.NStep	166		
k_CurrDiagSecErrorThresh_Volt_f32	58.0890007		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	43		
k_CurrDiagSec_Cnt_Str.PStep	46		
k_CurrDiagSec_Cnt_Str.NStep	17		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.80000019		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-19.8666992		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	57.9738998		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-14.4499998		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.1199999		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.973100007		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.04570007		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.653395712	0.653395712 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.558828771	0.558828771 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	0.738893151	0.738893151 ± 0.0625	✓

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TqRsDg\_Per1

Name	Actual Value	Expected Value	Result
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	0.395596206	0.395596206 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 3.6 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.47900009
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.063000001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.99349999
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0500000007
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.579
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0588000007
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.84850001
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0560000017
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	22
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	20
k_CurrDiagLambdaMinMax_Volt_f32	0.855799973
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.33370018
k_CurrDiagPrimErrorThresh_Volt_f32	185.998398
k_CurrDiagPrim_Cnt_Str.Threshold	42
k_CurrDiagPrim_Cnt_Str.PStep	59
k_CurrDiagPrim_Cnt_Str.NStep	0
k_CurrDiagSecErrorThresh_Volt_f32	143.790894
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	169
k_CurrDiagSec_Cnt_Str.PStep	235
k_CurrDiagSec_Cnt_Str.NStep	60
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.921700001
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.32930005
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	-140.936096
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-185.024506
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-6.46999979
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0600004
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.98649979

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.25073862	4.25073862 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.83661509	3.83661509 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.25943375	4.25943375 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.64105916	2.64105916 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	22	22	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	1	1	✓

T				
Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

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TqRsDg\_Per1

## Test Step 3.7 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.26219988
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.111599997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.38829994
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.108000003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.44220018
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.103500001
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.32730007
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0989999995
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	27
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	25
k_CurrDiagLambdaMinMax_Volt_f32	11.6905003
k_CurrDiagMtrEnvTblMax_MtrNm_f32	5.17859983
k_CurrDiagPrimErrorThresh_Volt_f32	3.60010004
k_CurrDiagPrim_Cnt_Str.Threshold	200
k_CurrDiagPrim_Cnt_Str.PStep	159
k_CurrDiagPrim_Cnt_Str.NStep	2
k_CurrDiagSecErrorThresh_Volt_f32	105.122002
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	85
k_CurrDiagSec_Cnt_Str.PStep	67
k_CurrDiagSec_Cnt_Str.NStep	127
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurridptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.256999999
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-3.31399989
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	203.820602
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-152.617294
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	0.180000007
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0100002
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	1.29760003

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	6.32304049	6.32304096 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	5.54155922	5.54155922 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.56546593	4.56546545 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	1.84053791	1.84053779 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	186	186	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✓
target_TqRsDg_Per1_MtrCurridptSig_Cnt_u08.value	1	1	✓

Actual Function	Count	Expected Function	Count	Result
*none*	0	*** No Call Expected ***	0	✓

## Test Step 3.8 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.17479992
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0744000003
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	3.59220004

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TqRsDg\_Per1

Name	Input Value		
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0719999969		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	4.2947998		
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.0689999983		
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.21819997		
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.0659999996		
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	23		
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	21		
k_CurrDiagLambdaMinMax_Volt_f32	12.9694004		
k_CurrDiagMtrEnvTblMax_MtrNm_f32	4.40310001		
k_CurrDiagPrimErrorThresh_Volt_f32	8.31260014		
k_CurrDiagPrim_Cnt_Str.Threshold	13		
k_CurrDiagPrim_Cnt_Str.PStep	66		
k_CurrDiagPrim_Cnt_Str.NStep	255		
k_CurrDiagSecErrorThresh_Volt_f32	83.521698		
k_CurrDiagSecTrqLmtThresh_Uls_f32	1		
k_CurrDiagSec_Cnt_Str.Threshold	95		
k_CurrDiagSec_Cnt_Str.PStep	236		
k_CurrDiagSec_Cnt_Str.NStep	17		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-1.42579997		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	78.3576965		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-100.774101		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	-5.13999987		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-11.0500002		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.240799993		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	7.9046998		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	0	0	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	0	0	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	2.89927149	2.89927149 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.39976501	2.39976478 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	3.99697709	3.99697757 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	2.07038164	2.07038188 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	4	4	✔
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0	✓	

Test Step 3.9 (Repeat Count = 1)		✓
Name	Input Value	
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.5243998	
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.223199993	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.7765999	
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.216000006	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8844004	
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.207000002	
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.65460014	
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.197999999	
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	39	
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	37	
k_CurrDiagLambdaMinMax_Volt_f32	16.1483002	
k_CurrDiagMtrEnvTblMax_MtrNm_f32	6.93109989	

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TqRsDg\_Per1

Name	Input Value
k_CurrDiagPrimErrorThresh_Volt_f32	64.4897003
k_CurrDiagPrim_Cnt_Str.Threshold	8
k_CurrDiagPrim_Cnt_Str.PStep	22
k_CurrDiagPrim_Cnt_Str.NStep	132
k_CurrDiagSecErrorThresh_Volt_f32	8.3810997
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	200
k_CurrDiagSec_Cnt_Str.PStep	227
k_CurrDiagSec_Cnt_Str.NStep	216
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurldptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	8.70119953
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	81.066597
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	-38.5410004
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	16.1399994
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	-10.8900003
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.871599972
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.83229995

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	2	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.3626328	11.3626337 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	10.0298347	10.0298347 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	11.7383671	11.7383671 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	6.79189491	6.79189444 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	0	0	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	200	200	✓
target_TqRsDg_Per1_MtrCurldptSig_Cnt_u08.value	0	0	✓

T				
Actual Function	Count	Expected Function	Count	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓

## Test Step 3.10 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	21.5697994
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.38440001
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	18.5597
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.372000009
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	22.1898003
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.3565
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.4607
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.340999991
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	55
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	53
k_CurrDiagLambdaMinMax_Volt_f32	1.18939996
k_CurrDiagMtrEnvTblMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	186.005798
k_CurrDiagPrim_Cnt_Str.Threshold	146
k_CurrDiagPrim_Cnt_Str.PStep	79
k_CurrDiagPrim_Cnt_Str.NStep	25
k_CurrDiagSecErrorThresh_Volt_f32	9.60980034
k_CurrDiagSecTrqLmtThresh_Uls_f32	1
k_CurrDiagSec_Cnt_Str.Threshold	223
k_CurrDiagSec_Cnt_Str.PStep	72
k_CurrDiagSec_Cnt_Str.NStep	179

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TqRsDg\_Per1

Name	Input Value
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.999984741
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.125650004
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-4.2663002
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	165.736206
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	49.989399
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	1.45000005
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	1.45000005
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	0.230100006
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	2.6401

Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	2	*none*	✓
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	*none*	✓
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	12.8211632	12.8211632 ± 0.0625	✓
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	11.2130346	11.2130346 ± 0.0625	✓
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	14.7031574	14.7031574 ± 0.0625	✓
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	7.95818663	7.95818663 ± 0.0625	✓
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	30	30	✓
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	125	125	✓
target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08.value	1	1	✓

T					✓
Actual Function	Count	Expected Function	Count	Result	
*none*	0	*** No Call Expected ***	0		✓

## Test Step 3.11 (Repeat Count = 1)

Name	Input Value
Rte_Inst_Ap_TqRsDg	target_Rte_Inst_Ap_TqRsDg
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-0.587400019
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.545599997
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-0.536800027
TqRsDg_AlpaCurrDiagSecLPF_M_Str.K_Uls_f32	0.527999997
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-31
TqRsDg_BetaCurrDiagPrimLPF_M_Str.K_Uls_f32	0.505999982
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	15.8971004
TqRsDg_BetaCurrDiagSecLPF_M_Str.K_Uls_f32	0.483999997
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	72
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	70
k_CurrDiagLambdaMinMax_Volt_f32	12.1154003
k_CurrDiagMtrEnvTbIMax_MtrNm_f32	8.80000019
k_CurrDiagPrimErrorThresh_Volt_f32	8.53390026
k_CurrDiagPrim_Cnt_Str.Threshold	125
k_CurrDiagPrim_Cnt_Str.PStep	147
k_CurrDiagPrim_Cnt_Str.NStep	119
k_CurrDiagSecErrorThresh_Volt_f32	135.560196
k_CurrDiagSecTrqLmtThresh_Uls_f32	0.845499992
k_CurrDiagSec_Cnt_Str.Threshold	96
k_CurrDiagSec_Cnt_Str.PStep	17
k_CurrDiagSec_Cnt_Str.NStep	135
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_CorrMtrPosElec_Rev_f32	target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstKe_VpRadpS_f32	target_TqRsDg_Per1_EstKe_VpRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_EstR_Ohm_f32	target_TqRsDg_Per1_EstR_Ohm_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32	target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrDaxRef_Amp_f32	target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08	target_TqRsDg_Per1_MtrCurrIdptSig_Cnt_u08
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32	target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltDax_Volt_f32	target_TqRsDg_Per1_MtrVoltDax_Volt_f32
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_MtrVoltQax_Volt_f32	target_TqRsDg_Per1_MtrVoltQax_Volt_f32

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TqRsDg\_Per1

Name	Input Value		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_OutputRampMult_Uls_f32	target_TqRsDg_Per1_OutputRampMult_Uls_f32		
target_Rte_Inst_Ap_TqRsDg.TqRsDg_Per1_TrqLimitMin_MtrNm_f32	target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32		
target_TqRsDg_Per1_CorrMtrPosElec_Rev_f32.value	0.0216000006		
target_TqRsDg_Per1_EstKe_VpRadpS_f32.value	0.075000003		
target_TqRsDg_Per1_EstR_Ohm_f32.value	0.102899998		
target_TqRsDg_Per1_MRFMtrVel_MtrRadpS_f32.value	-0.0318999998		
target_TqRsDg_Per1_MtrCurrDaxRef_Amp_f32.value	131.775101		
target_TqRsDg_Per1_MtrCurrQaxFinalRef_Amp_f32.value	164.5672		
target_TqRsDg_Per1_MtrVoltDax_Volt_f32.value	2.99000001		
target_TqRsDg_Per1_MtrVoltQax_Volt_f32.value	2.54999995		
target_TqRsDg_Per1_OutputRampMult_Uls_f32.value	1		
target_TqRsDg_Per1_TrqLimitMin_MtrNm_f32.value	5.22289991		
Name	Actual Value	Expected Value	Result
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(NTC_Cnt_T_enum)	169	169	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Param_Cnt_T_u08)	1	1	✔
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus(Status_Cnt_T_enum)	1	1	✔
TqRsDg_AlpaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-5.89281178	-5.89281225 ± 0.0625	✔
TqRsDg_AlpaCurrDiagSecLPF_M_Str.SV_Uls_f32	-5.69778633	-5.69778681 ± 0.0625	✔
TqRsDg_BetaCurrDiagPrimLPF_M_Str.SV_Uls_f32	-9.84050751	-9.8405056 ± 0.0625	✔
TqRsDg_BetaCurrDiagSecLPF_M_Str.SV_Uls_f32	13.4384193	13.4384193 ± 0.0625	✔
TqRsDg_CurrDiagPrimPNAccum_Cnt_M_u16	125	125	✔
TqRsDg_CurrDiagSecPNAccum_Cnt_M_u16	0	0	✔
target_TqRsDg_Per1_MtrCurrdptSig_Cnt_u08.value	0	0	✔

T					✓
Actual Function	Count	Expected Function	Count	Result	
Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	Rte_Call_Ap_TqRsDg_NxtrDiagMgr_SetNTCStatus	1	✓	