

Modify ACMS Data Bus Validity Table
File: H_CRP_AOC_2BVL.xls
Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS contingency procedure is to modify the ACMS bus validity tables for those units that use the 1553 data bus.

The procedure involves the following activities:

- checking current status of 1553 bus units
- selecting the step(s) to declare each unit as either Valid or Invalid, as necessary

NOTE: The ACMS units that use the 1553 data bus are the star trackers (i.e. STR1 & STR2) and the GYR electronics (i.e. GYR1 & GYR2).

Summary of Constraints

Execution of this procedure must be approved/authorised by the SOM

Spacecraft Configuration

Start of Procedure

Health & status of units on 1553 bus have been assessed and proposed action to declare specific units either valid or invalid is understood and agreed.

End of Procedure

Specific units on 1553 bus declared either valid or invalid, as agreed

Reference File(s)

Input Command Sequences

Output Command Sequences

HRA2BVL2
HRA2BVL3
HRA2BVL4
HRA2BVL5
HRA2BVLA
HRA2BVLB
HRA2BVLC
HRA2BVLD
HRA2BVL6
HRA2BVL7
HRA2BVL8
HRA2BVL9
HRA2BVLE
HRA2BVLF
HRA2BVLG
HRA2BVLH

Referenced Displays

ANDs GRDs SLDs

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ZAA01999
 ZAZ7S999
 ZAA02999
 ZAALL999

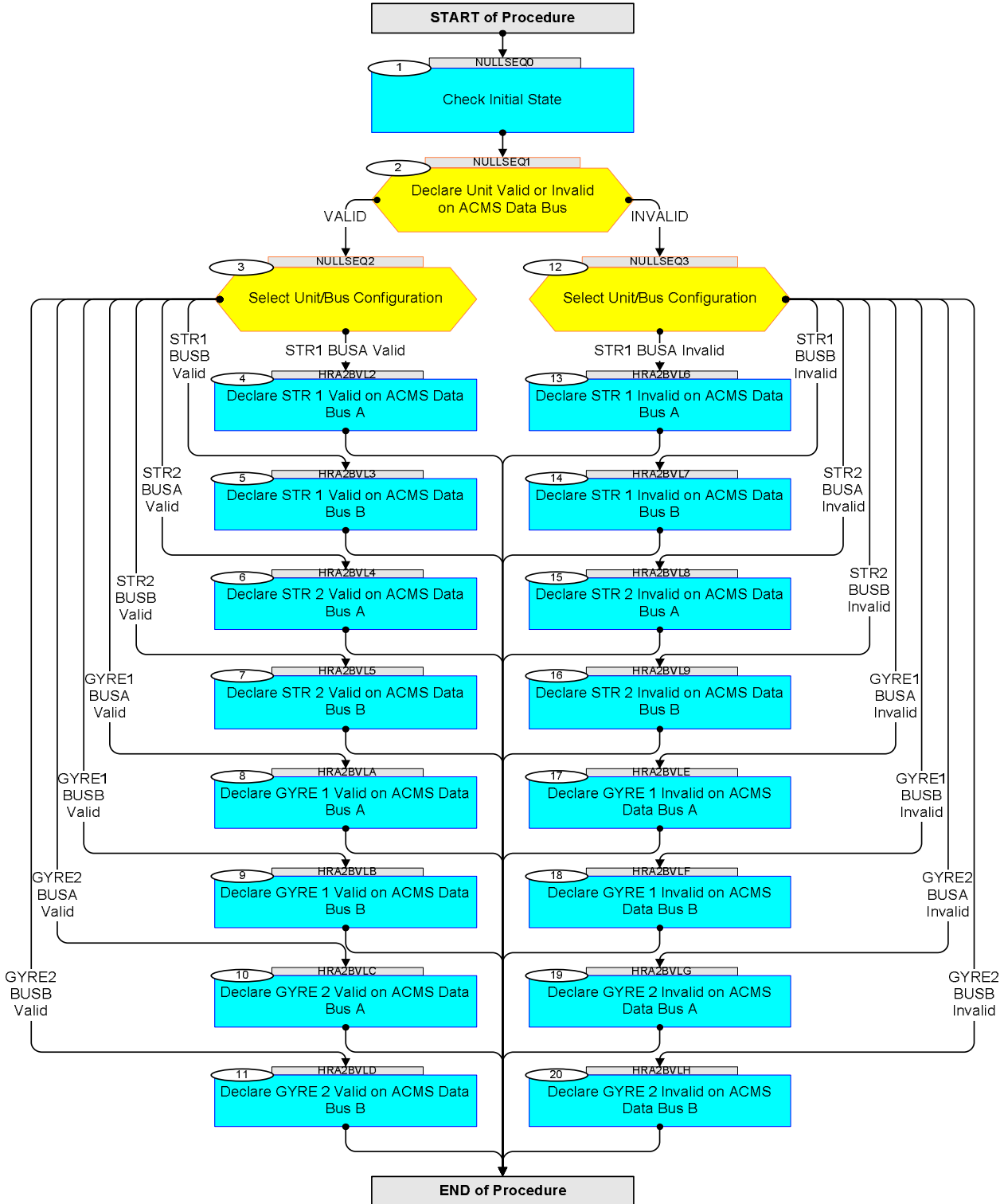
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
12/01/09		1	Created	dsalt-hp	
02/02/09	2	2	Checked-in for FOP release (02/02/09)	dsalt-hp	
07/01/10	3	3	First and last steps for DTM (define/enable, disable/clear) removed as relevant bus TM now included in the '9-stars' packed (SPID=240011990) permanently enabled for FD	dsalt-hp	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name : NULLSEQ0 ()				
TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
1		Check Initial State		Next Step: 2
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
1.1		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<to be read>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<to be read>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<to be read>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<to be read>	AND=ZAA01999
1.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<to be read>	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
1.3		Check Current Bus Selection (for each unit)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<to be read>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<to be read>	AND=ZAZ7S999
<p>TC Seq. Name :NULLSEQ1 ()</p> <p>TimeTag Type: Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
2		Declare Unit Valid or Invalid on ACMS Data Bus		Next Step: VALID 3 INVALID 12
		Select appropriate branch depending on whether you want to declare a unit valid/healthy or invalid/unhealthy on the ACMS data bus: Valid/Healthy -> GO TO STEP 4 Invalid/Unhealthy -> GO TO STEP 9		
<p>TC Seq. Name :NULLSEQ2 ()</p> <p>TimeTag Type: Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
3		Select Unit/Bus Configuration		Next Step: STR1 BUSA Valid 4 STR1 BUSA Valid 5 STR2 BUSA Valid 6 STR2 BUSA Valid 7 GYRE1 BUSA Valid 8 GYRE1

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
				BUSB Valid 9 GYRE2 BUSA Valid 10 GYRE2 BUSB Valid 11
		<p>Select the unit/bus combination that you want to declare valid/healthy:</p> <p>STR 1 via data bus A -> GO TO STEP 5</p> <p>STR 1 via data bus B -> GO TO STEP 6</p> <p>STR 2 via data bus A -> GO TO STEP 7</p> <p>STR 2 via data bus B -> GO TO STEP 8</p>		
		<p>Select the unit/bus combination that you want to declare valid/healthy:</p> <p>GYR 1 via data bus A -> GO TO STEP 9</p> <p>GYR 1 via data bus B -> GO TO STEP 10</p> <p>GYR 2 via data bus A -> GO TO STEP 11</p> <p>GYR 2 via data bus B -> GO TO STEP 12</p>		
<p>TC Seq. Name :HRA2BVL2 (DeclStr1ValidOnBusA)</p> <p>TimeTag Type: N</p> <p>Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
4		Declare STR 1 Valid on ACMS Data Bus A		Next Step: END
		<p>This step declares STR 1 valid on ACMS data bus A. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that STR 1 is currently declared invalid on ACMS bus A 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 		
		<p>Verify Telemetry</p> <p>Valid bus STR1A AES61002</p>	= Unhealthy	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
4.1		Uplink Sequence HRA2BVL2		<input type="checkbox"/>
		Execute Telecommand STR1busA val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - STR1busA val defSGM	ACYD4109 Enable 86 Enable 86	
4.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	= Healthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
4.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
4.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVL3 (DeclStr1ValidOnBusB)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
5		Declare STR 1 Valid on ACMS Data Bus B		Next Step: END
		<p>This step declares STR 1 valid on ACMS data bus B. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that STR 1 is currently declared invalid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 		
		Verify Telemetry Valid bus STR1B AES62002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
5.1		Uplink Sequence HRA2BVL3		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand STR1busB val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - STR1busB val defSGM	ACYD2109 Enable 86 Enable 86	
5.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	= Healthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
5.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
5.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
6.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	= Healthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
6.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
6.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
TC Seq. Name :HRA2BVL5 (DeclStr2ValidOnBusB) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
7		Declare STR 2 Valid on ACMS Data Bus B		Next Step: END
		This step declares STR 2 valid on ACMS data bus B. Checks to be done before modifying the validity table: 1. Check that STR 2 is currently declared invalid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use.		
		Verify Telemetry Valid bus STR2B AES64002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
7.1		Uplink Sequence HRA2BVL5		<input type="checkbox"/>
		Execute Telecommand STR2busB val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - STR2busB val defSGM	ACYF6109	
7.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	= Healthy	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
7.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
7.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVLA (DeclGyrElValidOnBusA)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
8		Declare GYRE 1 Valid on ACMS Data Bus A		Next Step: END

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p><i>This step declares GYRE 1 valid on ACMS data bus A. Checks to be done before modifying the validity table:</i></p> <ol style="list-style-type: none"> <i>1. Check that GYRE 1 is currently declared invalid on ACMS bus A</i> <i>2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use.</i> 		
		<p>Verify Telemetry</p> <p style="text-align: center;">SgmInUse AESMS002</p>	<to be read>	AND=ZAA01999
		<p>Verify Telemetry</p> <p style="text-align: center;">Val bus GYRE1A AES65002</p>	<to be read>	AND=ZAZ7S999
8.1		<p><i>Uplink Sequence HRA2EVL A</i></p>		☐
		<p>Execute Telecommand</p> <p style="text-align: center;">GYRE1busA val defSGM</p> <p>Command Parameter(s) :</p> <p style="text-align: center;">UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001</p> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : TC(8,1) - GYRE1busA val defSGM</p>	<p>ACYCA109</p> <p>Enable 86 Enable 86</p>	
8.2		<p><i>Check ACMS Data Bus Validity Table</i></p>		☐
		<p>Verify Telemetry</p> <p style="text-align: center;">Val bus GYRE1A AES65002</p>	= Healthy	AND=ZAZ7S999
		<p>Verify Telemetry</p> <p style="text-align: center;">Val bus GYRE1B AES66002</p>	<no change>	AND=ZAZ7S999
		<p>Verify Telemetry</p> <p style="text-align: center;">Val bus GYRE2A AES67002</p>	<no change>	AND=ZAZ7S999
		<p>Verify Telemetry</p> <p style="text-align: center;">Val bus GYRE2B AES68002</p>	<no change>	AND=ZAZ7S999
		<p>Verify Telemetry</p> <p style="text-align: center;">Valid bus STR1A AES61002</p>	<no change>	AND=ZAZ7S999
		<p>Verify Telemetry</p> <p style="text-align: center;">Valid bus STR1B AES62002</p>	<no change>	AND=ZAZ7S999
		<p>Verify Telemetry</p> <p style="text-align: center;">Valid bus STR2A AES63002</p>	<no change>	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
8.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
8.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVLB (DeclGyrElValidOnBusB)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
9		Declare GYRE 1 Valid on ACMS Data Bus B		Next Step: END
		<p>This step declares GYRE 1 valid on ACMS data bus B. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that GYRE 1 is currently declared invalid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry Val bus GYRE1B AES66002	<to be read>	AND=ZAZ7S999
9.1		Uplink Sequence HRA2BVLB		<input type="checkbox"/>
		Execute Telecommand GYRE1busB val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - GYRE1busB val defSGM	ACYBY109 Enable 86 Enable 86	
9.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	= Healthy	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
9.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999

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		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
9.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVLC (DeclGyrE2ValidOnBusA)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
10		Declare GYRE 2 Valid on ACMS Data Bus A		Next Step: END
		<p>This step declares GYRE 2 valid on ACMS data bus A. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that GYRE 2 is currently declared invalid on ACMS bus A 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 		
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry Val bus GYRE2A AES67002	<to be read>	AND=ZAZ7S999
10.1		Uplink Sequence HRA2BVLC		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand GYRE2busA val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - GYRE2busA val defSGM	ACYDBI09	
10.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	= Healthy	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
10.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
10.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>

Modify ACMS Data Bus Validity Table
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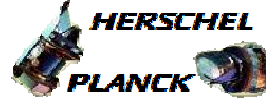
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVLD (DeclGyrE2ValidOnBusB)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
11		Declare GYRE 2 Valid on ACMS Data Bus B		Next Step: END
		<p>This step declares GYRE 2 valid on ACMS data bus B. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that GYRE 2 is currently declared invalid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 		
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry Val bus GYRE2B AES68002	<to be read>	AND=ZAZ7S999
11.1		Uplink Sequence HRA2BVLD		<input type="checkbox"/>
		<p>Execute Telecommand</p> <p style="text-align: center;">GYRE2busB val defSGM</p> <p>Command Parameter(s) :</p> <p style="padding-left: 40px;">UnHlthDF86 Cmd AHFH1001 Enable 86</p> <p style="padding-left: 40px;">UnHlth DD86Cmd AHFH2001 Enable 86</p> <p>TC Control Flags :</p> <p style="padding-left: 100px;">GBM IL DSE</p> <p style="padding-left: 100px;">--Y -- ---</p> <p>Subsch. ID : 20</p> <p>Det. descr. : TC(8,1) - GYRE2busB val defSGM</p>	ACYCZ109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
11.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	= Healthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
11.3		Check Current Bus Selection		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
11.4		Check ACMS Data Bus Communication Configuration		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<p><i>TC Seq. Name : NULLSEQ3 ()</i></p> <p><i>TimeTag Type:</i> <i>Sub Schedule ID:</i></p> <p><input type="checkbox"/></p>				
12		Select Unit/Bus Configuration		Next Step: STR1 BUSB Invalid 14 STR2 BUSA Invalid 15 STR2 BUSB Invalid 16 STR1 BUSA Invalid 13 GYRE1 BUSA Invalid 17 GYRE1
				BUSB Invalid 18 GYRE2 BUSA Invalid 19 GYRE2 BUSB Invalid 20
		<p>Select the unit/bus combination that you want to declare invalid/unhealthy:</p> <p>STR 1 via data bus A -> GO TO STEP 14</p> <p>STR 1 via data bus B -> GO TO STEP 15</p> <p>STR 2 via data bus A -> GO TO STEP 16</p> <p>STR 2 via data bus B -> GO TO STEP 17</p>		
		<p>Select the unit/bus combination that you want to declare invalid/unhealthy:</p> <p>GYR 1 via data bus A -> GO TO STEP 18</p> <p>GYR 1 via data bus B -> GO TO STEP 19</p> <p>GYR 2 via data bus A -> GO TO STEP 20</p> <p>GYR 2 via data bus B -> GO TO STEP 21</p>		

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
TC Seq. Name : HRA2BVL6 (DeclStr1InvalOnBusA) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
13		Declare STR 1 Invalid on ACMS Data Bus A		Next Step: END
		This step declares STR 1 invalid on ACMS data bus A. Checks to be done before modifying the validity table: 1. Check that STR 1 is currently declared valid on ACMS bus A 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and startracker in use configuration. If FDIR mode is AFO and STR 1 is the unit in use, all units will switch to bus B autonomously as a result of declaring STR 1 invalid on bus A. If the FDIR mode is AFS and/or STR 2 is the unit in use, no autonomous reconfigurations will occur.		
		Verify Telemetry Valid bus STR1A AES61002	= Healthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	<to be read>	AND=ZAA01999
13.1		Uplink Sequence HRA2BVL6		<input type="checkbox"/>
		Execute Telecommand STR1busA not val defSGM ACYD5109 Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - STR1busA not val defSGM		
13.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus STR1A AES61002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
13.3		Case 1: FDIR mode = AFO and startracker in use = STR 1		□
		If FDIR mode is AFO and current startracker in use is STR 1, all units (STR & GYRE) will switch to bus B autonomously as a result of declaring STR 1 invalid on bus A.		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	= STR 1	AND=ZAA01999
13.3.1		Verify reception of ACC ASW events (applicable to case 1 see above)		□
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry (Pkt = A52URPLCD109) New_Unit AE5CD001	= STR1 bus B	
		Verify Packet Telemetry (Pkt = A52URPLCD109) FDIR_Action AE5BS001	= Reconfigured	

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
13.3.2		Check Current Bus Selection (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus B	AND=ZAZ7S999
13.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus B	AND=ZAA01999
13.4		Case 2: FDIR mode = AFS and/or startracker in use = STR 2		<input type="checkbox"/>
		If the FDIR mode is AFS and/or the current startracker in use is STR 2, no autonomous reconfigurations will occur.		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry STR1 Health Sts AES31002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr STR in use AES18002	= STR 2	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
13.4.1		Check Current Bus Selection (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
13.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
TC Seq. Name :HRA2BVL7 (DeclStr1InvalOnBusB) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
14		Declare STR 1 Invalid on ACMS Data Bus B		Next Step: END

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p><i>This step declares STR 1 invalid on ACMS data bus B. Checks to be done before modifying the validity table:</i></p> <ol style="list-style-type: none"> 1. Check that STR 1 is currently declared valid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and startracker in use configuration. If FDIR mode is AFO and STR 1 is the unit in use, all units will switch to bus A autonomously as a result of declaring STR 1 invalid on bus B. If the FDIR mode is AFS and/or STR 2 is the unit in use, no autonomous reconfigurations will occur. 		
		Verify Telemetry Valid bus STR1B AES62002	= Healthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	<to be read>	AND=ZAA01999
14.1		Uplink Sequence HRA2BVL7		□
		Execute Telecommand STR1busB not val defSGM ACYD3109 Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - STR1busB not val defSGM		
14.2		Check ACMS Data Bus Validity Table		□
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
14.3		Case 1: FDIR mode = AFO and startracker in use = STR 1		<input type="checkbox"/>
		If FDIR mode is AFO and current startracker in use is STR 1, all units (STR & GYRE) will switch to bus A autonomously as a result of declaring STR 1 invalid on bus B.		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	= STR 1	AND=ZAA01999
14.3.1		Verify reception of ACC ASW events (applicable to case 1, see above)		<input type="checkbox"/>
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry (Pkt = A52URPLCD109) New_Unit AE5CD001	= STR1 bus A	
		Verify Packet Telemetry (Pkt = A52URPLCD109) FDIR_Action AE5BS001	= Reconfigured	
14.3.2		Check Current Bus Selection (applicable to case 1, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus A	AND=ZAZ7S999

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus A	AND=ZAZ7S999
14.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus A	AND=ZAA01999
14.4		Case 2: FDIR mode = AFS and/or startracker in use = STR 2		<input type="checkbox"/>
		If the FDIR mode is AFS and/or the current startracker in use is STR 2, no autonomous reconfigurations will occur.		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry STR1 Health Sts AES31002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr STR in use AES18002	= STR 2	AND=ZAA01999
14.4.1		Check Current Bus Selection (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
14.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVL8 (DeclStr2InvalOnBusA)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
15		Declare STR 2 Invalid on ACMS Data Bus A		Next Step: END
		<p>This step declares STR 2 invalid on ACMS data bus A. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that STR 2 is currently declared valid on ACMS bus A 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and startracker in use configuration. If FDIR mode is AFO and STR 2 is the unit in use, all units will switch to bus B autonomously as a result of declaring STR 2 invalid on bus A. If the FDIR mode is AFS and/or STR 1 is the unit in use, no autonomous reconfigurations will occur. 		
		Verify Telemetry Valid bus STR2A AES63002	= Healthy	AND=ZAZ7S999

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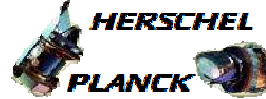
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	<to be read>	AND=ZAA01999
15.1		Uplink Sequence HRA2BVL8		<input type="checkbox"/>
		Execute Telecommand STR2busA not val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - STR2busA not val defSGM	ACYF9109 Enable 86 Enable 86	
15.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
15.3		Case 1: FDIR mode = AFO and startracker in use = STR 2		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>If FDIR mode is AFO and current startracker in use is STR 2, all units (STR & GYRE) will switch to bus B autonomously as a result of declaring STR 2 invalid on bus A.</i>		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	= STR 2	AND=ZAA01999
15.3.1		<i>Verify reception of ACC ASW events (applicable to case 1, see above)</i>		<input type="checkbox"/>
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry (Pkt = A52URPLCD109) New_Unit AES5CD001	= STR2 bus B	
		Verify Packet Telemetry (Pkt = A52URPLCD109) FDIR_Action AES5BS001	= Reconfigured	
15.3.2		<i>Check Current Bus Selection (applicable to case 1, see above)</i>		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus B	AND=ZAZ7S999
15.3.3		<i>Check ACMS Data Bus Communication Configuration (applicable to case 1, see above)</i>		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus B	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus B	AND=ZAA01999
15.4		Case 2: FDIR mode = AFS and/or startracker in use = STR 1		<input type="checkbox"/>
		If the FDIR mode is AFS and/or the current startracker in use is STR 1, no autonomous reconfigurations will occur.		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry STR2 Health Sts AES32002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr STR in use AES18002	= STR 1	AND=ZAA01999
15.4.1		Check Current Bus Selection (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
15.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999

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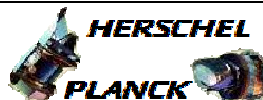
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVL9 (DeclStr2InvalOnBusB)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
16		Declare STR 2 Invalid on ACMS Data Bus B		Next Step: END
		<p>This step declares STR 2 invalid on ACMS data bus B. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that STR 2 is currently declared valid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and startracker in use configuration. If FDIR mode is AFO and STR 2 is the unit in use, all units will switch to bus A autonomously as a result of declaring STR 2 invalid on bus B. If the FDIR mode is AFS and/or STR 1 is the unit in use, no autonomous reconfigurations will occur. 		
		Verify Telemetry Valid bus STR2B AES64002	= Healthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	<to be read>	AND=ZAA01999
16.1		Uplink Sequence HRA2BVL9		<input type="checkbox"/>

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand STR2busB not val defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - STR2busB not val defSGM	ACYF7109 Enable 86 Enable 86	
16.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
16.3		Case 1: FDIR mode = AFO and startracker in use = STR 2		<input type="checkbox"/>
		If FDIR mode is AFO and current startracker in use is STR 2, all units (STR & GYRE) will switch to bus A autonomously as a result of declaring STR 2 invalid on bus B.		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	= STR 2	AND=ZAA01999

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
16.3.1		Verify reception of ACC ASW events (applicable to case 1, see above)		<input type="checkbox"/>
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry (Pkt = A52URPLCD109) New_Unit AE5CD001	= STR2 bus A	
		Verify Packet Telemetry (Pkt = A52URPLCD109) FDIR_Action AE5BS001	= Reconfigured	
16.3.2		Check Current Bus Selection (applicable to case 1, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus STR1 AE56A002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AE56B002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AE56C002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AE56D002	= Use bus A	AND=ZAZ7S999
16.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus STR1 AE575002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AE576002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AE577002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AE578002	= Using bus A	AND=ZAA01999
16.4		Case 2: FDIR mode = AFS and/or startracker in use = STR 1		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>If the FDIR mode is AFS and/or the current startracker in use is STR 1, no autonomous reconfigurations will occur.</i>		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry STR2 Health Sts AES32002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr STR in use AES18002	= STR 1	AND=ZAA01999
16.4.1		Check Current Bus Selection (applicable to case 2, see above)		□
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
16.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		□
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
TC Seq. Name : HRA2BVLE (DeclGyrElInvalOnBusA) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
17		Declare GYRE 1 Invalid on ACMS Data Bus A		Next Step: END
		This step declares GYRE 1 invalid on ACMS data bus A. Checks to be done before modifying the validity table: 1. Check that GYRE 1 is currently declared valid on ACMS bus A 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and GYR Electronics in use configuration. If FDIR mode is AFO and GYRE 1 is the unit in use, all units will switch to bus B autonomously as a result of declaring GYRE 1 invalid on bus A. If the FDIR mode is AFS and/or GYRE 2 is the unit in use, no autonomous reconfigurations will occur.		
		Verify Telemetry Val bus GYRE1A AES65002 = Healthy		AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002 <to be read>		AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002 <to be read>		AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002 <to be read>		AND=ZAA01999
17.1		Uplink Sequence HRA2BVLE		<input type="checkbox"/>
		Execute Telecommand GYRElbusA notval defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - GYRElbusA notval defSGM	ACYCB109	
17.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Val bus GYRE1A AES65002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
17.3		Case 1: FDIR mode = AFO and GYR Electronics in use = GYRE1		□
		<i>If FDIR mode is AFO and GYR Electronics in use is GYRE 1, all units (GYRE & STR) will switch to bus B autonomously as a result of declaring GYRE 1 invalid on bus A.</i>		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	= GYRE 1	AND=ZAA01999
17.3.1		Verify reception of ACC ASW events (applicable to case 1 see above)		□
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry New_Unit AE5CD001	= GYRE1 bus B	AND=ZAALL999
		Verify Packet Telemetry FDIR_Action AE5BS001	= Reconfigured	AND=ZAALL999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
17.3.2		Check Current Bus Selection (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus B	AND=ZAZ7S999
17.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus B	AND=ZAA01999
17.4		Case 2: FDIR mode = AFS and/or GYR Electronics in use = GYRE1		<input type="checkbox"/>
		If the FDIR mode is AFS and/or the current GYR Electronics in use is GYRE 2, no autonomous reconfigurations will occur.		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry GYRE1 Hlth Sts AESK3002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr GYRE use AES20002	= GYRE 2	AND=ZAA01999

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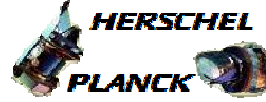
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
17.4.1		Check Current Bus Selection (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
17.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVL (DeclGyrElInvalOnBusB)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
18		Declare GYRE 1 Invalid on ACMS Data Bus B		Next Step: END

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p><i>This step declares GYRE 1 invalid on ACMS data bus B. Checks to be done before modifying the validity table:</i></p> <ol style="list-style-type: none"> 1. Check that GYRE 1 is currently declared valid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and GYR Electronics in use configuration. If FDIR mode is AFO and GYRE 1 is the unit in use, all units will switch to bus B autonomously as a result of declaring GYRE 1 invalid on bus A. If the FDIR mode is AFS and/or GYRE 2 is the unit in use, no autonomous reconfigurations will occur. 		
		Verify Telemetry Val bus GYRE1B AES66002	= Healthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	<to be read>	AND=ZAA01999
18.1		Uplink Sequence HRA2BVL F		☐
		Execute Telecommand GYRE1busB notval defSGM ACYBZ109 Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : TC(8,1) - GYRE1busB notval defSGM		
18.2		Check ACMS Data Bus Validity Table		☐
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
18.3		Case 1: FDIR mode = AFO and GYR Electronics in use = GYRE1		<input type="checkbox"/>
		If FDIR mode is AFO and GYR Electronics in use is GYRE 1, all units (GYRE & STR) will switch to bus A autonomously as a result of declaring GYRE 1 invalid on bus B.		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	= GYRE 1	AND=ZAA01999
18.3.1		Verify reception of ACC ASW events (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry New_Unit AE5CD001	= GYRE1 bus A	AND=ZAALL999
		Verify Packet Telemetry FDIR_Action AE5BS001	= Reconfigured	AND=ZAALL999
18.3.2		Check Current Bus Selection (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus A	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus A	AND=ZAZ7S999
18.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus A	AND=ZAA01999
18.4		Case 2: FDIR mode = AFS and/or GYR Electronics in use = GYRE1		<input type="checkbox"/>
		If the FDIR mode is AFS and/or the current GYR Electronics in use is GYRE 2, no autonomous reconfigurations will occur.		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry GYRE1 Hlth Sts AESK3002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr GYRE use AES20002	= GYRE 2	AND=ZAA01999
18.4.1		Check Current Bus Selection (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
18.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
<p>TC Seq. Name :HRA2BVLG (DeclGyre2InvalOnBusA)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
19		Declare GYRE 2 Invalid on ACMS Data Bus A		Next Step: END
		<p>This step declares GYRE 2 invalid on ACMS data bus A. Checks to be done before modifying the validity table:</p> <ol style="list-style-type: none"> 1. Check that GYRE 2 is currently declared valid on ACMS bus A 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and GYR Electronics in use configuration. If FDIR mode is AFO and GYRE 2 is the unit in use, all units will switch to bus B autonomously as a result of declaring GYRE 2 invalid on bus A. If the FDIR mode is AFS and/or GYRE 1 is the unit in use, no autonomous reconfigurations will occur. 		
		Verify Telemetry Val bus GYRE2A AES67002	= Healthy	AND=ZAZ7S999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	<to be read>	AND=ZAA01999
19.1		Uplink Sequence HRA2BVLG		<input type="checkbox"/>
		Execute Telecommand GYRE2busA notval defSGM Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - GYRE2busA notval defSGM	ACYDC109 Enable 86 Enable 86	
19.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	= Unhealthy	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
19.3		Case 1: FDIR mode = AFO and GYR Electronics in use = GYRE1		<input type="checkbox"/>

Modify ACMS Data Bus Validity Table
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>If FDIR mode is AFO and GYR Electronics in use is GYRE 2, all units (GYRE & STR) will switch to bus B autonomously as a result of declaring GYRE 2 invalid on bus A.</i>		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	= GYRE 1	AND=ZAA01999
19.3.1		Verify reception of ACC ASW events (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry New_Unit AESCD001	= GYRE2 bus B	AND=ZAALL999
		Verify Packet Telemetry FDIR_Action AESBS001	= Reconfigured	AND=ZAALL999
19.3.2		Check Current Bus Selection (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus B	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus B	AND=ZAZ7S999
19.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus B	AND=ZAA01999

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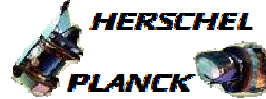
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Comm bus STR1 AES75002	= Using bus B	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus B	AND=ZAA01999
19.4		Case 2: FDIR mode = AFS and/or GYR Electronics in use = GYRE1		<input type="checkbox"/>
		If the FDIR mode is AFS and/or the current GYR Electronics in use is GYRE 1, no autonomous reconfigurations will occur.		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry GYRE2 Hlth Sts AESK4002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr GYRE use AES20002	= GYRE 1	AND=ZAA01999
19.4.1		Check Current Bus Selection (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
19.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
TC Seq. Name :HRA2BVLH (DeclGyrE2InvalOnBusB) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
20		Declare GYRE 2 Invalid on ACMS Data Bus B		Next Step: END
		This step declares GYRE 2 invalid on ACMS data bus B. Checks to be done before modifying the validity table: 1. Check that GYRE 2 is currently declared valid on ACMS bus B 2. Check the SGM configuration in use. All commanding in this sequence is addressed to the SGM configuration in use. 3. Check FDIR mode and GYR Electronics in use configuration. If FDIR mode is AFO and GYRE 2 is the unit in use, all units will switch to bus A autonomously as a result of declaring GYRE 2 invalid on bus A. If the FDIR mode is AFS and/or GYRE 1 is the unit in use, no autonomous reconfigurations will occur.		
		Verify Telemetry Val bus GYRE2B AES68002	= Healthy	AND=ZAZ7S999
		Verify Telemetry SgmInUse AESMS002	<to be read>	AND=ZAA01999
		Verify Telemetry FdirMode AESMJ002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	<to be read>	AND=ZAA01999
20.1		Uplink Sequence HRA2BVLH		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand GYRE2busB notval defSGM <i>Command Parameter(s) :</i> UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 <i>TC Control Flags :</i> GBM IL DSE --Y -- -- <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) - GYRE2busB notval defSGM	ACYDA109	
20.2		Check ACMS Data Bus Validity Table		<input type="checkbox"/>
		Verify Telemetry Val bus GYRE1A AES65002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE1B AES66002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2A AES67002	<no change>	AND=ZAZ7S999
		Verify Telemetry Val bus GYRE2B AES68002	Unhealthy	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1A AES61002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1B AES62002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2A AES63002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2B AES64002	<no change>	AND=ZAZ7S999
20.3		Case 1: FDIR mode = AFO and GYR Electronics in use = GYRE1		<input type="checkbox"/>
		If FDIR mode is AFO and GYR Electronics in use is GYRE 1, all units (GYRE & STR) will switch to bus B autonomously as a result of declaring GYRE 1 invalid on bus A.		
		Verify Telemetry FdirMode AESMJ002	= AFO rcfg ena	AND=ZAA01999
		Verify Telemetry Curr GYRE use AES20002	= GYRE 2	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
20.3.1		Verify reception of ACC ASW events (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Packet Reception AccAsw TM_5_2_16387 - Fdir Unit Replaced Packet Details: APID: 512 Type: 5 Subtype: 2 PI1: 16387 PI2: 0	A52URPLCD109	
		Verify Packet Telemetry New_Unit AESCD001	= GYRE2 bus A	AND=ZAALL999
		Verify Packet Telemetry FDIR_Action AESBS001	= Reconfigured	AND=ZAALL999
20.3.2		Check Current Bus Selection (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Valid bus GYRE1 AES6C002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	= Use bus A	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	= Use bus A	AND=ZAZ7S999
20.3.3		Check ACMS Data Bus Communication Configuration (applicable to case 1 see above)		<input type="checkbox"/>
		Verify Telemetry Comm bus GYRE1 AES77002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	= Using bus A	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	= Using bus A	AND=ZAA01999
20.4		Case 2: FDIR mode = AFS and/or GYR Electronics in use = GYRE1		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>If the FDIR mode is AFS and/or the current GYR Electronics in use is GYRE 2, no autonomous reconfigurations will occur.</i>		
		Verify Telemetry FdirMode AESMJ002	= AFS rfg dis	AND=ZAA01999
		and/or ...		
		Verify Telemetry GYRE2 Hlth Sts AESK4002	= Unhealthy	AND=ZAA02999
		and/or ...		
		Verify Telemetry Curr GYRE use AES20002	= GYRE 1	AND=ZAA01999
20.4.1		Check Current Bus Selection (applicable to case 2, see above)		□
		Verify Telemetry Valid bus GYRE1 AES6C002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus GYRE2 AES6D002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR1 AES6A002	<no change>	AND=ZAZ7S999
		Verify Telemetry Valid bus STR2 AES6B002	<no change>	AND=ZAZ7S999
20.4.2		Check ACMS Data Bus Communication Configuration (applicable to case 2, see above)		□
		Verify Telemetry Comm bus GYRE1 AES77002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus GYRE2 AES78002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR1 AES75002	<no change>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<no change>	AND=ZAA01999
End of Procedure				