

Update STR misalignments  
 File: H\_FCP\_AOC\_1STM.xls  
 Author: dsalt-hp



## Procedure Summary

### Objectives

The objective of this Herschel ACMS procedure is to update the STR misalignment quaternion values in the OBDB.

The procedure involves the following activities:

- disable STR related FDIR checks
- sending values via dedicated TC
- check OBDB for updated values via DTM for OBDB2 or dumps
- enable STR related FDIR checks

The procedure specifies a series of OBDB loads necessary to update OBDB parameters related to STR misalignments.

### Summary of Constraints

Flight Dynamics must have analysed the S/C data, derived updates for the Star Tracker Misalignment quaternions and generated a specific TPF (STM) containing these updated values.

No other ACC critical command armed.

### Spacecraft Configuration

**Start of Procedure**

n/a

**End of Procedure**

n/a

### Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

HFA1STMA  
 AESTM\_00  
 HFA1STMB

### Referenced Displays

ANDs	GRDs	SLDs
ZAA01999		
ZAA06999		

### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
02/08/2008	1	1	Created	dsalt-hp	

Status : Version 4 - Updated  
 Last Checkin: 24/02/2011

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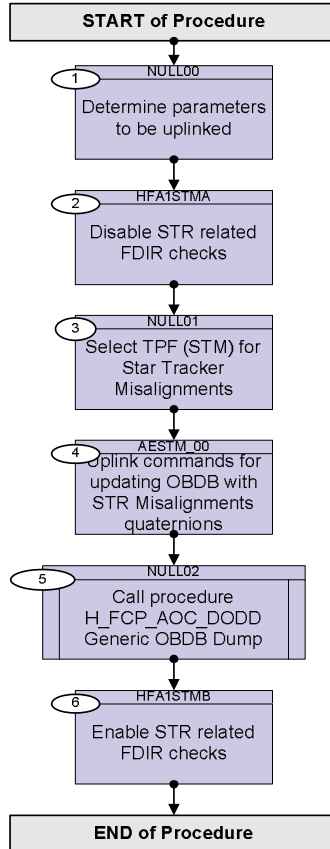


23/03/2009	2.2	2	Addition of time-tagd to TC in Step 3	dsalt-hp	
25/08/2009	2.5	3	Step 2 & 6 added to disable/enable all STR related FDIR checks to avoid possible triggering when STR misalignments are updated	dsalt-hp	
24/02/2011	3.1	4	Step 6.1 updated to disable STR HK check to ensure coherence with latest onboard configuration	dsalt-hp	

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## Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
<p><i>TC Seq. Name : NULL00 (Null Sequence 00)</i></p> <p><i>TimeTag Type:</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		Determine parameters to be uplinked		Next Step: 2
		<p>Determine the values of Star Tracker Misalignment quaternions for both STR units.</p> <p>The results should be used to derive the following matrices:            H_NOM_AUX_STR1_CORR_MISLIGN_** (a 7x4 matrix representing STR1 Misalignment quaternions).            H_NOM_AUX_STR2_CORR_MISLIGN_** (a 7x4 matrix representing STR2 Misalignment quaternions).</p>		
<p><i>TC Seq. Name : HFA1STMA (DisableSTRrelatedChecks)</i></p> <p><i>TimeTag Type:</i>  <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
2		Disable STR related FDIR checks		Next Step: 3
		<p><b>NOTE:</b>            This procedure updates the STR misalignment matrix and so the resulting shift in the STR measured quaternions is <u>likely to trigger the STR related FDIR checks</u>.</p> <p>The following TCs are therefore used to disable these checks.</p>		
2.1		Command disabling of STR related FDIR checks		□
		<p>Verify Telemetry</p> <p style="text-align: center;">Curr STR in use                      AES18002                      = STR 2</p>		AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;"><b>DisChkSTR - all</b></p> <i>Command Parameter(s) :</i> <b>DisChk DF86Cmd</b> <b>AH8C1001</b> <b>DisChk DD86Cmd</b> <b>AH8C2001</b>	ACY6V109  Enable 86 Enable 86	
		<i>TC Control Flags :</i> <p style="text-align: center;"><b>GBM IL DSE</b>            --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) - Disable check FDIR - DisChkSTR - all		
		Execute Telecommand <p style="text-align: center;"><b>Fire Disable Check</b></p> <i>Command Parameter(s) :</i> <b>FireFun DF86Cmd</b> <b>AH8F1001</b> <b>FireFun DD86Cmd</b> <b>AH8F2001</b>	ACZ7M109  Enable 86 Enable 86	
		<i>TC Control Flags :</i> <p style="text-align: center;"><b>GBM IL DSE</b>            --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Disable Check		
		Execute Telecommand <p style="text-align: center;"><b>DisChkGYR-STR cross</b></p> <i>Command Parameter(s) :</i> <b>DisChk DF86Cmd</b> <b>AH8C1001</b> <b>DisChk DD86Cmd</b> <b>AH8C2001</b>	ACY8F109  Enable 86 Enable 86	
		<i>TC Control Flags :</i> <p style="text-align: center;"><b>GBM IL DSE</b>            --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) - Disable check FDIR - DisChkGYR-STR cross		
		Execute Telecommand <p style="text-align: center;"><b>Fire Disable Check</b></p> <i>Command Parameter(s) :</i> <b>FireFun DF86Cmd</b> <b>AH8F1001</b> <b>FireFun DD86Cmd</b> <b>AH8F2001</b>	ACZ7M109  Enable 86 Enable 86	
		<i>TC Control Flags :</i> <p style="text-align: center;"><b>GBM IL DSE</b>            --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Disable Check		
2.2		Verify disabling of STR related FDIR checks		□

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry STR alive check                    AES47001	= Disabled	AND=ZAA06999
		Verify Telemetry STR cont check                    AES48001	= Disabled	AND=ZAA06999
		Verify Telemetry STR covar check                    AES49001	= Disabled	AND=ZAA06999
		Verify Telemetry STR loss check                    AES4A001	= Disabled	AND=ZAA06999
		Verify Telemetry STR hk data chk                    AES4B001	= Disabled	AND=ZAA06999
		Verify Telemetry GYRSTR xchk                    AES57002	= Disabled	AND=ZAA06999

TC Seq. Name :NULL01 (Null Sequence 01)

TimeTag Type:  
 Sub Schedule ID:

3		Select TPF (STM) for Star Tracker Misalignments		Next Step: 4
		Check with Flight Dynamics the <b>exact name of the TPF instance</b> to be uplinked		

TC Seq. Name :AESTM\_00 (Update STM)

TimeTag Type: B  
 Sub Schedule ID: 20  
 Formal Parameter List :

STR1_MIS_1_1 S1_11=	<dec>
STR1_MIS_1_2 S1_12=	<dec>
STR1_MIS_1_3 S1_13=	<dec>
STR1_MIS_1_4 S1_14=	<dec>
STR1_MIS_2_1 S1_21=	<dec>
STR1_MIS_2_2 S1_22=	<dec>
STR1_MIS_2_3 S1_23=	<dec>
STR1_MIS_2_4 S1_24=	<dec>
STR1_MIS_3_1 S1_31=	<dec>

<dec>  
 <dec>  
 <dec>  
 <dec>  
 <dec>  
 <dec>  
 <dec>  
 <dec>  
 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		STR1_MIS_3_2 S1_32= STR1_MIS_3_3 S1_33= STR1_MIS_3_4 S1_34= STR1_MIS_4_1 S1_41= STR1_MIS_4_2 S1_42= STR1_MIS_4_3 S1_43= STR1_MIS_4_4 S1_44= STR1_MIS_5_1 S1_51= STR1_MIS_5_2 S1_52= STR1_MIS_5_3 S1_53= STR1_MIS_5_4 S1_54= STR1_MIS_6_1 S1_61= STR1_MIS_6_2 S1_62= STR1_MIS_6_3 S1_63= STR1_MIS_6_4 S1_64=	<dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec>	
		STR1_MIS_7_1 S1_71= STR1_MIS_7_2 S1_72= STR1_MIS_7_3 S1_73= STR1_MIS_7_4 S1_74= STR2_MIS_1_1 S2_11= STR2_MIS_1_2 S2_12= STR2_MIS_1_3 S2_13= STR2_MIS_1_4 S2_14= STR2_MIS_2_1 S2_21= STR2_MIS_2_2 S2_22= STR2_MIS_2_3 S2_23= STR2_MIS_2_4 S2_24= STR2_MIS_3_1 S2_31= STR2_MIS_3_2 S2_32= STR2_MIS_3_3 S2_33=	<dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec>	
		STR2_MIS_3_4 S2_34= STR2_MIS_4_1 S2_41= STR2_MIS_4_2 S2_42= STR2_MIS_4_3 S2_43= STR2_MIS_4_4 S2_44= STR2_MIS_5_1 S2_51= STR2_MIS_5_2 S2_52= STR2_MIS_5_3 S2_53= STR2_MIS_5_4 S2_54= STR2_MIS_6_1 S2_61= STR2_MIS_6_2 S2_62= STR2_MIS_6_3 S2_63= STR2_MIS_6_4 S2_64= STR2_MIS_7_1 S2_71= STR2_MIS_7_2 S2_72=	<dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec> <dec>	
		STR2_MIS_7_3 S2_73= STR2_MIS_7_4 S2_74=	<dec> <dec>	
4		Uplink commands for updating OBDB with STR Misalignments quaternions		Next Step: 5
		Uplink onboard the parameters determined in the previous step.  Note that the Star Tracker Misalignments quaternions for each STR are stored in consecutive OBDB locations and so can be loaded in a single step.		
4.1		Activate loading		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.00 UT=+	Execute Telecommand  Start database loading  Command Parameter(s) : ASW Function ID           AHFUN001 DbLoad DF86 Cmd           AH8D1001 DbLoad DD86 Cmd           AH8D2001 DbLoad Nr Cmds            AHFDL001  TC Control Flags :  GBM IL DSE --Y -- --  Subsch. ID : 20 Det. descr. : TC_START_DATABASE_LOAD	ACDS1001  DB loading (Def) Enable 86 Enable 86 2 <dec>	
		Following the Start_database_loading command the following commands must each be sent within C_ALL_OPS_ASW_CRIT_CMD_TIMEOUT (=180 seconds default) of the previous command to avoid the started status of the function timing-out.		
4.2		Load values		□
	ET=+00.00.05 UT=+	Execute Telecommand  OBDB_STR1_MIS  Command Parameter(s) : DbLoad DF86 Cmd           XH191990 DbLoad DD86 Cmd           XH192990 STR1_MIS_1_1               XH135990 STR1_MIS_1_2               XH136990 STR1_MIS_1_3               XH137990 STR1_MIS_1_4               XH138990 STR1_MIS_2_1               XH139990 STR1_MIS_2_2               XH140990 STR1_MIS_2_3               XH141990 STR1_MIS_2_4               XH142990 STR1_MIS_3_1               XH143990   STR1_MIS_3_2               XH144990 STR1_MIS_3_3               XH145990 STR1_MIS_3_4               XH146990 STR1_MIS_4_1               XH147990 STR1_MIS_4_2               XH148990 STR1_MIS_4_3               XH149990 STR1_MIS_4_4               XH150990 STR1_MIS_5_1               XH151990 STR1_MIS_5_2               XH152990 STR1_MIS_5_3               XH153990 STR1_MIS_5_4               XH154990 STR1_MIS_6_1               XH155990 STR1_MIS_6_2               XH156990 STR1_MIS_6_3               XH157990 STR1_MIS_6_4               XH158990	XC031990  Enable 86 (Def) Enable 86 (Def) S1_11 S1_12 S1_13 S1_14 S1_21 S1_22 S1_23 S1_24 S1_31   S1_32 S1_33 S1_34 S1_41 S1_42 S1_43 S1_44 S1_51 S1_52 S1_53 S1_54 S1_61 S1_62 S1_63 S1_64	



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		STR1_MIS_7_1 XH159990 STR1_MIS_7_2 XH160990 STR1_MIS_7_3 XH161990 STR1_MIS_7_4 XH162990  TC Control Flags :  Subsch. ID : 20 Det. descr. :	S1_71 S1_72 S1_73 S1_74  GBM IL DSE --Y -- ---	
	ET=+00.00.05 UT=+	Execute Telecommand  Command Parameter(s) : DbLoad DF86 Cmd XH191990 DbLoad DD86 Cmd XH192990 STR2_MIS_1_1 XH163990 STR2_MIS_1_2 XH164990 STR2_MIS_1_3 XH165990 STR2_MIS_1_4 XH166990 STR2_MIS_2_1 XH167990 STR2_MIS_2_2 XH168990 STR2_MIS_2_3 XH169990 STR2_MIS_2_4 XH170990 STR2_MIS_3_1 XH171990   STR2_MIS_3_2 XH172990 STR2_MIS_3_3 XH173990 STR2_MIS_3_4 XH174990 STR2_MIS_4_1 XH175990 STR2_MIS_4_2 XH176990 STR2_MIS_4_3 XH177990 STR2_MIS_4_4 XH178990 STR2_MIS_5_1 XH179990 STR2_MIS_5_2 XH180990 STR2_MIS_5_3 XH181990 STR2_MIS_5_4 XH182990 STR2_MIS_6_1 XH183990 STR2_MIS_6_2 XH184990 STR2_MIS_6_3 XH185990 STR2_MIS_6_4 XH186990   STR2_MIS_7_1 XH187990 STR2_MIS_7_2 XH188990 STR2_MIS_7_3 XH189990 STR2_MIS_7_4 XH190990  TC Control Flags :  Subsch. ID : 20 Det. descr. :	OBDB_STR2_MIS  XC032990  Enable 86 (Def) Enable 86 (Def) S2_11 S2_12 S2_13 S2_14 S2_21 S2_22 S2_23 S2_24 S2_31   S2_32 S2_33 S2_34 S2_41 S2_42 S2_43 S2_44 S2_51 S2_52 S2_53 S2_54 S2_61 S2_62 S2_63 S2_64   S2_71 S2_72 S2_73 S2_74	
4.3		Activate values		<input type="checkbox"/>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.05 UT=+	Execute Telecommand  <b>Fire critical command</b>  Command Parameter(s) : FireFun DF86Cmd           AH8F1001 FireFun DD86Cmd           AH8F2001 FireFun CritFID           AHFFH001  TC Control Flags :  GBM IL DSE --Y -- ---  Subsch. ID : 20 Det. descr. : TC_FIRE_COMMAND	ACFC1001  Enable 86 Enable 86 201 <dec>	
TC Seq. Name : NULL02 (Null Sequence 02)  TimeTag Type: Sub Schedule ID:  <input type="checkbox"/>				
5		Call procedure H_FCP_AOC_DODD Generic OBDB Dump		Next Step: 6
		NOTE: This procedure enables a direct dump of the OBDB from RAM or Safe-Guard Memory (SGM), as well as reading the OBDB via diagnostic telemetry (DTM) packets		
		<u>Relevant details for use with H FCP AOC DODD</u>  Based upon the latest ASW ICD (H-P-4-TASW-IF-0002, Issue 3 F), this procedure loads the following parameters into specific OBDB offset locations in <b>RAM</b> : H_NOM_AUX_STR1_CORR_MISLIGN_*_* are at OBDB offsets 268-295 H_NOM_AUX_STR2_CORR_MISLIGN_*_* are at OBDB offsets 300-327 These are located in <b>Block 2</b> of the OBDB  It also copies the following parameters into specific OBDB offset locations in <b>SGM</b> H_NOM_AUX_STR1_CORR_MISLIGN_*_* to offsets 36-63 H_NOM_AUX_STR2_CORR_MISLIGN_*_* to offsets 64-91		
5.1		Dump via DTM		<input type="checkbox"/>
		<u>Relevant details for use with H FCP AOC DODD</u>  The following parameters H_NOM_AUX_STR1_CORR_MISLIGN_*_* H_NOM_AUX_STR2_CORR_MISLIGN_*_* are located in <b>Block 2</b> of the OBDB		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Use sequence <a href="#">HFADODDE</a>		
		NOTE: The contents of diagnostic packet A3DH0BDB2109 {DTM with Herschel OBDB data2} are spread over a group of 4 monitoring displays:  <b>ZAZ64999 DTMOBDB2_1</b> <- values are in this display <b>ZAZ65999 DTMOBDB2_2</b> <- values are in this display ZAZ66999 DTMOBDB2_3 ZAZ67999 DTMOBDB2_4		
		NOTE: This step enables diagnostic packets that contain data from specific blocks of the OBDB, where each block contains 250 onboard database parameters.  The Herschel onboard database currently contains 2134 parameters and there are 8 diagnostic packets defined to cover the first 2000 entries. In HP-4-TASW-IF-0002 (ACC ASW_ICD) section 6.1 you can find a list of Herschel OBDB parameters ordered by offset.		
5.2		Dump from RAM		□
		Relevant details for use with H_FCP_AOC_DODD  Based upon the latest ASW ICD (H-P-4-TASW-IF-0002, Issue 3 F), this procedure loads the following parameters into specific OBDB offset locations in RAM: <b>H_NOM_AUX_STR1_CORR_MISLIGN_*_*</b> are at OBDB offsets 268-295 <b>H_NOM_AUX_STR2_CORR_MISLIGN_*_*</b> are at OBDB offsets 300-327  The <u>absolute address</u> of offset 268 is therefore: <b>020A = Memory ID</b> <b>D348 = Start Address</b>  The <u>absolute address</u> of offset 300 is therefore: <b>020A = Memory ID</b> <b>D3C8 = Start Address</b>		
		Use sequence <a href="#">HFADODDL</a> to dump <u>all</u> the OBDB in RAM, or edit: Start Address = <b>D348</b> Length = 136		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>NOTE:            The RAM memory address for a parameter with a given OBDB ID can be calculated as follows:            RAM address = OBDB start address + parameter offset;            OBDB start address = address of Asw_DatabaseManager_Obj + 12;            parameter offset = OBDB ID * 4.</p> <p>Parameter ID's are listed in the ASW ICD (H-P-4-TASW-IF-002).</p> <p>Asw_Databasemanager_Obj is an ASW container structure used in the management of the OBDB and its address has to be obtained from the linker memory map valid for the software build currently used onboard.</p>		
5.3		Dump from SGM		<input type="checkbox"/>
		<p><u>Relevant details for use with H_FCP_AOC_DODD</u></p> <p>Based upon the latest ASW ICD (H-P-4-TASW-IF-0002, Issue 3 F), this procedure copies the following parameters into specific OBDB offset locations in SGM</p> <p><b>H_NOM_AUX_STR1_CORR_MISLIGN_*_*</b>            to offsets 36-63</p> <p><b>H_NOM_AUX_STR2_CORR_MISLIGN_*_*</b>            to offsets 64-91</p> <p>The <u>absolute address</u> of offset 36 is therefore:  <b>BA008C in SGA (=12189836 &lt;dec&gt;)</b>  <b>EA008C in SGB (=15335564 &lt;dec&gt;)</b></p> <p>The <u>absolute address</u> of offset 64 is therefore:  <b>BA00FC in SGA (=12189948 &lt;dec&gt;)</b>  <b>EA00FC in SGB (=15335676 &lt;dec&gt;)</b></p>		
		<p><b>Use sequences HFADODDJ &amp; HFADODDK</b>            to dump <u>all</u> the OBDB in SGMA &amp; SGMB, or edit:            Start Address = <b>BA08C / EA008C</b>            Length = <b>224</b></p>		
		<p>NOTE:            The address of a parameter with a given ID can be calculated as follows:</p> <p>SGMA            Address = 0xBA0000 + (ParamID-1) * 4</p> <p>SGMB            Address = 0xEA0000 + (ParamID-1) * 4</p> <p>Parameter ID's refer to the listing of SGM OBDB parameters in the ASW ICD (H-P-4-TASW-IF-0002) and are not the same as the ID's in the RAM OBDB.</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<p>TC Seq. Name : HFA1STMB (EnableSTRrelatedChecks)</p> <p>TimeTag Type: N            Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
6		Enable STR related FDIR checks		Next Step: END
6.1		Command enabling of STR related FDIR checks		<input type="checkbox"/>
		Execute Telecommand <p style="text-align: right;"><b>EnaChkSTR covariance</b></p> Command Parameter(s) : <b>EnaChck DF86Cmd</b> <b>AH8F3001</b> <b>Enable 86</b> <b>EnaChck DD86Cmd</b> <b>AH8F4001</b> <b>Enable 86</b>	ACZBV109	
		TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkSTR covariance		
		Execute Telecommand <p style="text-align: right;"><b>EnaChkSTR continuity</b></p> Command Parameter(s) : <b>EnaChck DF86Cmd</b> <b>AH8F3001</b> <b>Enable 86</b> <b>EnaChck DD86Cmd</b> <b>AH8F4001</b> <b>Enable 86</b>	ACZBU109	
		TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkSTR continuity		
		Execute Telecommand <p style="text-align: right;"><b>EnaChkSTR - all</b></p> Command Parameter(s) : <b>EnaChck DF86Cmd</b> <b>AH8F3001</b> <b>Enable 86</b> <b>EnaChck DD86Cmd</b> <b>AH8F4001</b> <b>Enable 86</b>	ACZBS109	
		TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkSTR all		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <b>EnaChkGYR-STR cross</b>  Command Parameter(s) : <b>EnaChck DF86Cmd</b> <b>AH8F3001</b> <b>EnaChck DD86Cmd</b> <b>AH8F4001</b>  TC Control Flags : <b>GBM IL DSE</b> <b>--Y -- ---</b>  Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkGYR-STR cross	<b>ACZDC109</b>  <b>Enable 86</b> <b>Enable 86</b>	
		Execute Telecommand <b>DisChkSTR hk data</b>  Command Parameter(s) : <b>DisChk DF86Cmd</b> <b>AH8C1001</b> <b>DisChk DD86Cmd</b> <b>AH8C2001</b>  TC Control Flags : <b>GBM IL DSE</b> <b>--Y -- ---</b>  Subsch. ID : 20 Det. descr. : TC(8,1) - Disable check FDIR - DisChkSTR hk data	<b>ACY7A109</b>  <b>Enable 86</b> <b>Enable 86</b>	
		Execute Telecommand <b>Fire Disable Check</b>  Command Parameter(s) : <b>FireFun DF86Cmd</b> <b>AH8F1001</b> <b>FireFun DD86Cmd</b> <b>AH8F2001</b>  TC Control Flags : <b>GBM IL DSE</b> <b>--Y -- ---</b>  Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Disable Check	<b>ACZ7M109</b>  <b>Enable 86</b> <b>Enable 86</b>	
6.2		Verify disabling of STR related FDIR checks		<input type="checkbox"/>
		Verify Telemetry <b>STR alive check</b> <b>AES47001</b>	<b>= Enabled</b>	AND=ZAA06999
		Verify Telemetry <b>STR cont check</b> <b>AES48001</b>	<b>= Enabled</b>	AND=ZAA06999
		Verify Telemetry <b>STR covar check</b> <b>AES49001</b>	<b>= Enabled</b>	AND=ZAA06999
		Verify Telemetry <b>STR loss check</b> <b>AES4A001</b>	<b>= Enabled</b>	AND=ZAA06999
		Verify Telemetry <b>STR hk data chk</b> <b>AES4B001</b>	<b>= Enabled</b>	AND=ZAA06999

Update STR misalignments  
 File: H\_FCP\_AOC\_1STM.xls  
 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry GYRSTR xchk                      AES57002	= Enabled	AND=ZAA06999
<b>End of Procedure</b>				