

Re-power GYRE
File: H_CRP_AOC_4RPW.xls
Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS contingency procedure is to re-power the GYR-E manually.

The procedure involves the following activities:

- verify ACMS mode & GYR-E health
- faulty GYR-E declared OFF
- disable FDIR checks on GYR
- GYR-E switch OFF & reset
- reconfigure appropriate GYR connection to PPSM
- declare appropriate GYR-E ON
- modify appropriate GYR-E health in SGM
- verify GYR health and reset Health Status, as necessary
- disable FDIR checks on GYR

Reconfiguring the GYR electronics means that a period of about 1.5 minutes "GYR-less control" has to be enforced. This is preferred to be done in SCM, as in SAM a coarse GYR data replacement strategy is performed, since the STR does not need to be active (and CRS is not allowed to be used).

Summary of Constraints

None

Spacecraft Configuration

Start of Procedure

Spacecraft initial configuration
- ACMS in any mode

End of Procedure

Spacecraft final configuration
- ACMS in same mode but alternate GYR-E now used

Reference File(s)

Input Command Sequences

Output Command Sequences

HRA4RPWA
HRA4RPWB
HRA4RPWC
HRA4RPWX
HRA4RPWD
HRA4RPWE
HRA4RPWF
HRA4RPWG
HRA4RPWY

Referenced Displays

ANDs GRDs SLDs

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ZAA01999 ZGZ54999
 ZAA02999
 ZAA00999
 ZAA06999
 ZAAG0999
 ZAA41999
 ZAAG2999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
13/01/09		1	Created	dsalt-hp	
02/02/09	2	2	Checked-in for FOP release (02/02/09)	dsalt-hp	
20/02/09	2.1	3	Step 25 added to enable GYR health status to be reset to Healthy, if necessary	dsalt-hp	
22/03/09	2.2	4	Steps added to enable verification of Cal file loading	dsalt-hp	
31/03/09	2.3	5	Step 17 & 25 swapped to modify health of relevant GYRE	dsalt-hp	
04/05/09	2.4	6	Additional TM checks added in Step 8, 16 & 24	dsalt-hp	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">GYR-E 1 declare OFF</p> <i>Command Parameter(s) :</i> UnitSw DF86 Cmd AH8P1001 Enable 86 UnitSw DD86 Cmd AH8P2001 Enable 86 <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 1 declare OFF	ACYC7109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
		Verify Telemetry <p style="text-align: center;">Comm conf AES74002</p>		AND=ZAA01999
		Verify Telemetry <p style="text-align: center;">ASW unit pwrconf AES14002</p>		AND=ZAA00999
4		Select GYRE2 for active configuration		Next Step: 7
		Execute Telecommand <p style="text-align: center;">Select GYRE 2</p> <i>Command Parameter(s) :</i> NomConf DF86Cmd AH8N1001 Enable 86 NomConf DD86Cmd AH8N2001 Enable 86 <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Mod Nom Conf - Select GYRE 2	ACZ12109	
		Verify Telemetry <p style="text-align: center;">Curr GYRE use AES20002</p>	= GYRE 2	AND=ZAA01999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
TC Seq. Name : HRA4RPWB (GYRE2 declared OFF) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
5		GYR-E2 declared OFF		Next Step: 6
		Execute Telecommand <p style="text-align: right;">GYR-E 2 declare OFF</p> Command Parameter(s) : UnitSw DF86 Cmd AH8P1001 Enable 86 UnitSw DD86 Cmd AH8P2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 2 declare OFF	ACYC9109	
		Execute Telecommand <p style="text-align: right;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
		Verify Telemetry <p style="text-align: right;">Comm conf AES74002</p>		AND=ZAA01999
		Verify Telemetry <p style="text-align: right;">ASW unit pwrconf AES14002</p>		AND=ZAA00999
6		Select GYRE1 for active configuration		Next Step: 7
		Execute Telecommand <p style="text-align: right;">Select GYRE 1</p> Command Parameter(s) : NomConf DF86Cmd AH8N1001 Enable 86 NomConf DD86Cmd AH8N2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Mod Nom Conf - Select GYRE 1	ACZ11109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand FireSwitchACMSunitONOFF Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109 Enable 86 Enable 86	
8		<i>Disable FDIR check of GYRs</i>		Next Step: 9
		Execute Telecommand DisChkGYR - all Command Parameter(s) : DisChk DF86Cmd AH8C1001 DisChk DD86Cmd AH8C2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - Disable check FDIR - DisChkGYR - all	ACY7Z109 Enable 86 Enable 86	
		Execute Telecommand Fire Disable Check Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Disable Check	ACZ7M109 Enable 86 Enable 86	
		Verify Telemetry GYR alive check AES52002	= Disabled	AND=ZAA06999
		Verify Telemetry GYR ind hk chk AES53002	= Disabled	AND=ZAA06999
		Verify Telemetry GYR elec hk chk AES54002	= Disabled	AND=ZAA06999
		Verify Telemetry GYR cont check AES55002	= Disabled	AND=ZAA06999
		Verify Telemetry GYR sumdiag chk AES56002	= Disabled	AND=ZAA06999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
TC Seq. Name :HRA4RPWX (EnabledDTMforGYR) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
10		Define/enable DTM packets for GYR		Next Step: 11
		Define DTM packet for GYR (SA16-24), to be generated once every 16 sec (i.e. Interval=64)		
		Execute Telecommand <p style="text-align: center;">TC32H GYR SA16-24</p> Command Parameter(s) : HK Packet ID AH3PK109 111 <dec> (Def) TC3x_SID AHW04109 DTM Gyr12sa16-24 Interval AH3SA109 (Def) DID number AH3PA109 64 <dec> DID number AH3PA109 17113 <dec> (Def) DID number AH3PA109 17135 <dec> (Def) DID number AH3PA109 17152 <dec> (Def) DID number AH3PA109 17189 <dec> (Def) DID number AH3PA109 17226 <dec> (Def) DID number AH3PA109 17263 <dec> (Def) DID number AH3PA109 17303 <dec> (Def) DID number AH3PA109 17325 <dec> (Def)	ACZYM109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">GYR-E 1A switch ON</p> Command Parameter(s) : UnitSw DF86 Cmd AH8P1001 Enable 86 UnitSw DD86 Cmd AH8P2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 1A switch ON	ACZ60109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
		Wait 30 seconds.		
		Execute Telecommand <p style="text-align: center;">GYR-E 2B switch ON</p> Command Parameter(s) : UnitSw DF86 Cmd AH8P1001 Enable 86 UnitSw DD86 Cmd AH8P2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 2B switch ON	ACZ62109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
14		Declare GYRE1 ON		Next Step: 15

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">GYR-E 1 declare ON</p> <i>Command Parameter(s) :</i> UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE --Y -- --</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 1 declare ON	ACYC6109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 <i>TC Control Flags :</i> <p style="text-align: center;">GBM IL DSE --Y -- --</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
15		Verify Cal File has been loaded		Next Step: 16
		Verify Telemetry <p style="text-align: center;">G1 IRU config AMG0L065</p>	Bit 5 (progress status) 0=Finished, 1=In Progress Bit 6 (end status) 0=OK, 1=Fail	AND=ZAAG0999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: right;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
19		Select GYR-E2 on PPSMB		Next Step: 20
		Execute Telecommand <p style="text-align: right;">PPSMB select</p> Command Parameter(s) : UnitSw DF86 Cmd AH8P1001 Enable 86 UnitSw DD86 Cmd AH8P2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - PPSMB select	ACZ65109	
		Execute Telecommand <p style="text-align: right;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
20		Connect GYR1-2-3 to PPSMB		Next Step: 21

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">GYR 1A connect PPSMB</p> Command Parameter(s) : UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR 1A connect PPSMB	ACZ56109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
		Wait 30 seconds.		
		Execute Telecommand <p style="text-align: center;">GYR 2B connect PPSMB</p> Command Parameter(s) : UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR 2B connect PPSMB	ACZ57109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: center;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
		Wait 30 seconds.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">GYR 3C connect PPSMB</p> Command Parameter(s) : UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- --</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR 3C connect PPSMB	ACZ58109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- --</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
21		GYR-E switch ON		Next Step: 22
		Execute Telecommand <p style="text-align: center;">GYR-E 2B switch ON</p> Command Parameter(s) : UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- --</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 2B switch ON	ACZ62109	
		Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- --</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
		Wait 30 seconds.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: right;">GYR-E 1A switch ON</p> Command Parameter(s) : UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 1A switch ON	ACZ60109	
		Execute Telecommand <p style="text-align: right;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	
22		Declare GYRE2 ON		Next Step: 23
		Execute Telecommand <p style="text-align: right;">GYR-E 2 declare ON</p> Command Parameter(s) : UnitSw DF86 Cmd AH8F1001 Enable 86 UnitSw DD86 Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Switch ACMS unit on/off - GYR-E 2 declare ON	ACYC8109	
		Execute Telecommand <p style="text-align: right;">FireSwitchACMSunitONOFF</p> Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF	ACZ1M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry GYR B cal rate AEGRB002	<changing>	AND=ZAA41999
		Verify Telemetry GYR C cal rate AEGRC002	<changing>	AND=ZAA41999
		Verify Telemetry GYR D cal rate AEGRD002	<changing>	AND=ZAA41999
		Calculate/plot the GYR_sum /GYR_A_cal_rate - GYR_B_cal_rate + GYR_C_cal_rate - GYR_D_cal_rate/ and check this against a fixed limit (for the moment, set it to 0.01 rad/s). Anything above that means that a GYR is not behaving as it should. (N.B. a subsequent check against the STR can identify the culprit, but is difficult to implement)		
		Verify Telemetry GYR_sum XD008990	< +0.01 rd/s > -0.01 rd/s	GRD=ZGZ54999
25		Modify GYR-E2 health status in SGM		Next Step: 26
		Execute Telecommand GYRE2 healthy SGMAB Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 UnHlth DD86Cmd AHFH2001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - GYRE2 healthy SGMAB	ACYDR109 Enable 86 Enable 86	
		Verify Telemetry GYRE2 Hlth Sts AESK4002	= Healthy	AND=ZAA02999
TC Seq. Name :NULL03 (Null Sequence 03)				
TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
26		Verify GYR health status		Next Step: 27
		The check is intended to make sure that no problem has occurred during initialisation of the GYR in nominal modes.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry GYR1 Health Sts AES41002	= Healthy	AND=ZAA02999
		Verify Telemetry GYR2 Health Sts AES42002	= Healthy	AND=ZAA02999
		Verify Telemetry GYR3 Health Sts AES43002	= Healthy	AND=ZAA02999
		Verify Telemetry GYR4 Health Sts AES44002	= Healthy	AND=ZAA02999
27		IF GYR unhealthy		Next Step: THEN 28 ELSE 29
<p>TC Seq. Name :HRA4RPWF (ResetGYRhealth)</p> <p>TimeTag Type: N Sub Schedule ID: <input type="checkbox"/></p>				
28		Reset GYR health status		Next Step: 29
		<p>***** CAUTION *****</p> <p>These TCs should <u>only be uplinked after the health of each GYR has been assessed</u> and declared acceptable for operational use.</p>		
		<p>NOTE: Delete TCs, as necessary, for any GYR not determined to be healthy</p>		
		<p>Execute Telecommand</p> <p style="text-align: right;">GYR1 healthy 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 Det. descr. : TC(8,1) - GYR1 healthy defSGM</p>	<p>ACYJ8109</p>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: right;">GYR2 healthy defSGM</p> Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - GYR2 healthy defSGM	ACYK6109	
		Execute Telecommand <p style="text-align: right;">GYR3 healthy defSGM</p> Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - GYR3 healthy defSGM	ACYZ4109	
		Execute Telecommand <p style="text-align: right;">GYR4 healthy defSGM</p> Command Parameter(s) : UnHlthDF86 Cmd AHFH1001 Enable 86 UnHlth DD86Cmd AHFH2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - GYR4 healthy defSGM	ACYAC109	
		Verify Telemetry <p style="text-align: right;">GYR1 Health Sts AES41002</p>	= Healthy (if commanded) <input type="checkbox"/>	AND=ZAA02999
		Verify Telemetry <p style="text-align: right;">GYR2 Health Sts AES42002</p>	= Healthy (if commanded)	AND=ZAA02999
		Verify Telemetry <p style="text-align: right;">GYR3 Health Sts AES43002</p>	= Healthy (if commanded)	AND=ZAA02999
		Verify Telemetry <p style="text-align: right;">GYR4 Health Sts AES44002</p>	= Healthy (if commanded)	AND=ZAA02999

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
TC Seq. Name :HRA4RPWG (Enable FDIR check for GYR) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
29		Eable FDIR check of GYRs		Next Step: 30
		Execute Telecommand <p style="text-align: right;">EnaChkGYR - all</p> Command Parameter(s) : EnaChck DF86Cmd AH8F3001 EnaChck DD86Cmd AH8F4001 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkGYR - all	ACZCW109 Enable 86 Enable 86	
		Verify Telemetry FDIR GYR checks AES51002	= 63 <dec>	AND=ZAA06999
		Verify Telemetry GYR alive check AES52002	= Enabled	AND=ZAA06999
		Verify Telemetry GYR ind hk chk AES53002	= Enabled	AND=ZAA06999
		Verify Telemetry GYR elec hk chk AES54002	= Enabled	AND=ZAA06999
		Verify Telemetry GYR cont check AES55002	= Enabled	AND=ZAA06999
		Verify Telemetry GYR sumdiag chk AES56002	= Enabled	AND=ZAA06999
		Verify Telemetry GYRSTR xchk AES57002	= Enabled	AND=ZAA06999
TC Seq. Name :HRA4RPWY (DisabledDTMforGYR) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
30		Disable/delete DTM packets for GYR		Next Step: END
		Disable DTM packet for GYR (SA16-24)		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <div style="text-align: right;">DisableTmGen</div> Command Parameter(s) : <div style="text-align: right;"> N AH017070 Sub-Type AH019070 Packet-ID AH020070 </div> TC Control Flags : <div style="text-align: right;"> GBM IL DSE --Y -- --- </div> Subsch. ID : 20 Det. descr. : Disable Generation of Telemetry Packets	AC902070 1 <dec> (Def) Diag Report 111 <dec>	
		<i>OPTIONAL: Delete/clear DTM packet for GYR (SA16-24)</i>		
		Execute Telecommand <div style="text-align: right;">Clear Diagnostic Report</div> Command Parameter(s) : <div style="text-align: right;"> Number of pkts AH3NP109 HK Packet ID AH3PK109 </div> TC Control Flags : <div style="text-align: right;"> GBM IL DSE --Y -- --- </div> Subsch. ID : 20 Det. descr. : TC(3,4) Clear Diagnostic Parameter Report Definitions	AC034109 1 <dec> (Def) 111 <dec>	
End of Procedure				