

Dump STRM CCD Image
File: H_FCP_AOC_8CCZ.xls
Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS procedure is to dump the CCD image from STRM with an integration time of 250ms.

The procedure involves the following activities:

- disable STRM reconfiguration
- declare STRM unhealthy
- command STRM to STB
- upload DTM (SA10D1 & SA14D)
- command entire CCD dump from selected STR, as necessary
- command dump of multiple CCD blocks from selected STR, as necessary
- command dump of a single CCD block from selected STR, as necessary
- collect dump packets
- remove DTM (SA10D1 & SA14D)
- command STRM AAD
- declare STRM healthy
- enable STRM reconfiguration

The ACMS has not been designed to allow ASW-controlled CCD dumping, thus the procedure lists all the necessary steps.

Summary of Constraints

1. procedure to be executed only under Ground contact
2. safety TCs to command STRM to AAD to be uplinked to MTL

Spacecraft Configuration

Start of Procedure

Spacecraft initial conditions:
- STRM in control loop in AAD mode

End of Procedure

Spacecraft final conditions:
- STR CCD image dumped
- STRM back in control loop in AAD mode

Reference File(s)

Input Command Sequences

Output Command Sequences

HFA8CCZA
HFA8CCZZ
HFA8CCZB
HFA8CCZY
HFA8CCZC

Referenced Displays

ANDs GRDs SLDs

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ZAA00999
 ZAA01999
 ZAA05999
 ZAA02999
 ZAAD0999
 ZAAD3999
 ZAA06999

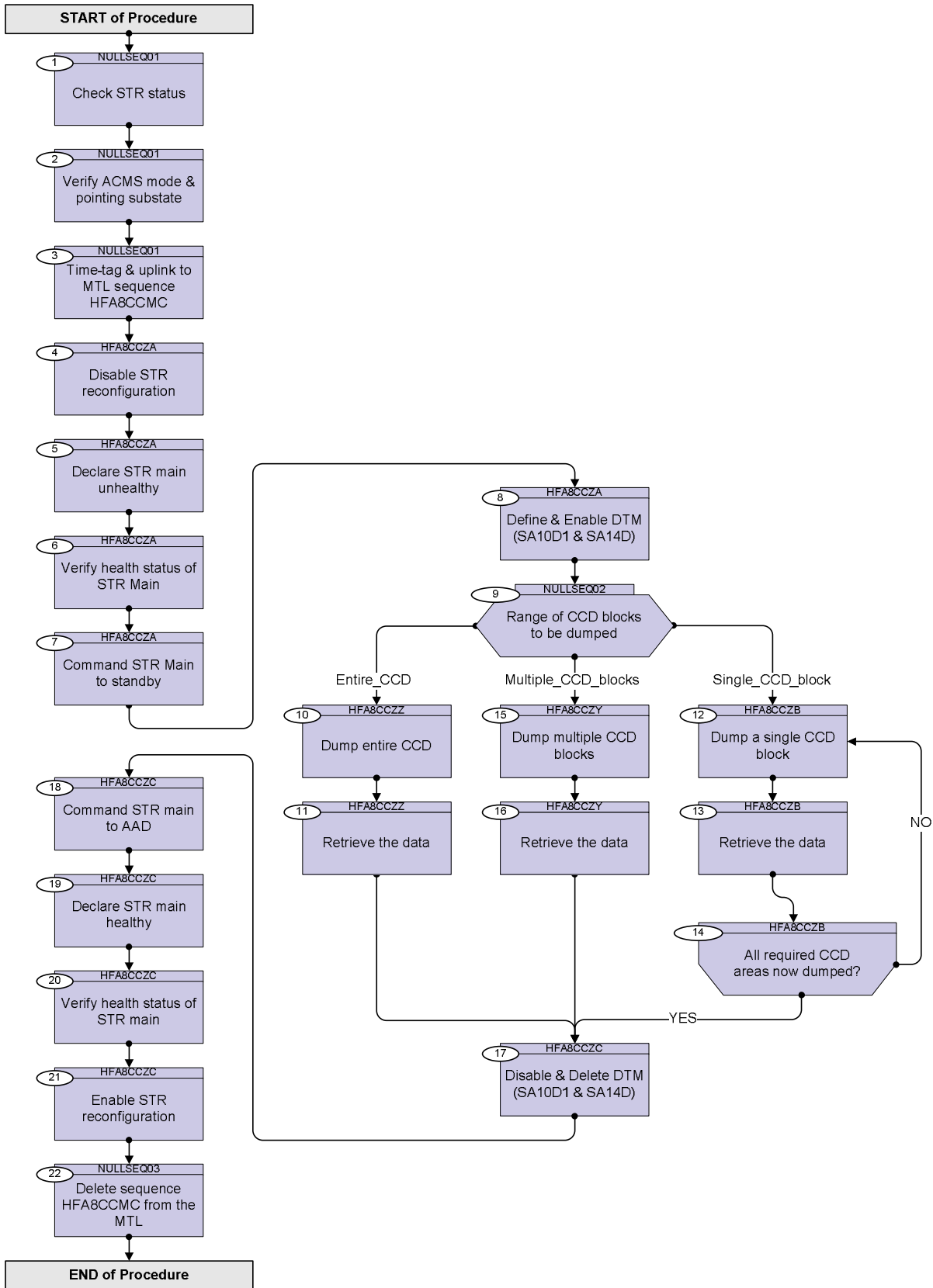
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
26/01/2011		1	Created	dsalt-hp	
02/03/2011	3.1	2	Editorial to remove references to redundant sequences	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 : NULLSEQ01 (Null Sequence 01)				
TimeTag Type: N Sub Schedule ID: □				
1		Check STR status		Next Step: 2
		Verify Telemetry STR1 power AE4P1002	<to be read>	AND=ZAA00999
		Verify Telemetry STR2 power AE4P2002	<to be read>	AND=ZAA00999
		Verify Telemetry Comm bus STR1 AES75002	<to be read>	AND=ZAA01999
		Verify Telemetry Comm bus STR2 AES76002	<to be read>	AND=ZAA01999
		Verify Telemetry Curr STR in use AES18002	<to be read>	AND=ZAA01999
		Verify Telemetry STRM Mode AEX04001	<to be read>	AND=ZAA05999
2		Verify ACMS mode & pointing substate		Next Step: 3
		Verify Telemetry AcmsMode AESMG002	<> SBM	AND=ZAA01999
		Verify Telemetry AcmsSubstate AESMF002	= OCM Pointing = SCM Pointing	AND=ZAA01999
		<p>IF</p> <p>ACMS does not settle into a stable pointing substate within the expected time (i.e after the Tslew value of last pointing TC)</p> <p>THEN</p> <p>abandon this procedure</p> <p>ELSE</p> <p>continue to next step...</p>		
3		Time-tag & uplink to MTL sequence HFA8CCMC		Next Step: 4

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<p>***** SAFETY ACTION *****</p> <p>To ensure STRM is back in the control loop during the next OD, load sequence HFA8CCMC onto the Manual Stack & define the execution start time <u>10 minutes before the end of the current pass</u></p>		
		Uplink the time-tagged sequence HFA8CCMC and verify the TCs on the MTL		
<p>TC Seq. Name : HFA8CCZA (STRM_to_standby)</p> <p>TimeTag Type: Sub Schedule ID: <input type="checkbox"/></p>				
4		Disable STR reconfiguration		Next Step: 5
		Execute Telecommand <p style="text-align: center;">Dis STR reconfiguration</p> <p>Command Parameter(s) :</p> <p style="margin-left: 40px;">DisRcf DF86Cmd AH8W1001 Enable 86</p> <p style="margin-left: 40px;">DisRcf DD86Cmd AH8W2001 Enable 86</p> <p>TC Control Flags :</p> <p style="margin-left: 100px;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : TC(8,1) - Disable reconfiguration - Dis STR reconfiguration</p>	ACZGT109	
		Execute Telecommand <p style="text-align: center;">Fire Disable Reconfig</p> <p>Command Parameter(s) :</p> <p style="margin-left: 40px;">FireFun DF86Cmd AH8F1001 Enable 86</p> <p style="margin-left: 40px;">FireFun DD86Cmd AH8F2001 Enable 86</p> <p>TC Control Flags :</p> <p style="margin-left: 100px;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Disable Reconfig</p>	ACZ8M109	
5		Declare STR main unhealthy		Next Step: 6

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand mSTR unhealthy 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) - mSTR unhealthy defSGM	ACYH9109 Enable 86 Disable 86	
		<p>***** WARNING *****</p> <p>Declaring the STR Unhealthy will generate a TM_5_4_16388, saying that the FDIR was triggered but the unit was not replaced since the TCs in Step 4 will have disabled reconfiguration.</p> <p>Note that this <u>may</u> be followed ~30 seconds later by BSW Event (5-2) - 433, entitled "Rx failure AccBsw Event 5-2 ACB Rx Failed", then immediately by a TM_5_1_16391 that provides further details at ACC level. However, there is no problem if last two events not be generated.</p>		
6		Verify health status of STR Main		Next Step: 7
6.1		STR main = STR1?		<input type="checkbox"/>
		Verify Telemetry Curr STR in use AES18002	= STR 1	AND=ZAA01999
6.2		Check health status of STR1		<input type="checkbox"/>
		Verify Telemetry STR1 Health Sts AES31002	= Unhealthy	AND=ZAA02999
6.3		STR main = STR2?		<input type="checkbox"/>
		Verify Telemetry Curr STR in use AES18002	= STR 2	AND=ZAA01999
6.4		Check health status of STR2		<input type="checkbox"/>
		OR Verify Telemetry STR2 Health Sts AES32002	= Unhealthy	AND=ZAA02999

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7		Command STR Main to standby		Next Step: 8																																														
		Execute Telecommand <p style="text-align: right;">STRmain STAND_BY</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>STRCfg DF86 Cmd</td><td>AH8J3001</td><td>Enable 86</td></tr> <tr><td>STRCfg DD86 Cmd</td><td>AH8J4001</td><td>Enable 86</td></tr> <tr><td>STRCfg Nrof Wrđ</td><td>AHFX8001</td><td>10 <dec> (Def)</td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>1 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> <tr><td>STRCfg Data Wrđ</td><td>AHFX9001</td><td>0 <dec></td></tr> </table> <p style="text-align: right;">TC Control Flags :</p> <table border="0"> <tr><td></td><td>GBM IL DSE</td></tr> <tr><td></td><td>--Y -- ---</td></tr> </table> <p>Subsch. ID : 20 Det. descr. : TC(8,1) Command STR config - STRmain STAND_BY</p>	STRCfg DF86 Cmd	AH8J3001	Enable 86	STRCfg DD86 Cmd	AH8J4001	Enable 86	STRCfg Nrof Wrđ	AHFX8001	10 <dec> (Def)	STRCfg Data Wrđ	AHFX9001	1 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>	STRCfg Data Wrđ	AHFX9001	0 <dec>		GBM IL DSE		--Y -- ---	<p>ACYHK109</p>	
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		The stand-by command is used in the version which suppresses the SW load from EEPROM to RAM																																																
		Execute Telecommand <p style="text-align: right;">Fire Cmd STR config</p> <p>Command Parameter(s) :</p> <table border="0"> <tr><td>FireFun DF86Cmd</td><td>AH8F1001</td><td>Enable 86</td></tr> <tr><td>FireFun DD86Cmd</td><td>AH8F2001</td><td>Enable 86</td></tr> </table> <p style="text-align: right;">TC Control Flags :</p> <table border="0"> <tr><td></td><td>GBM IL DSE</td></tr> <tr><td></td><td>--Y -- ---</td></tr> </table> <p>Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config</p>	FireFun DF86Cmd	AH8F1001	Enable 86	FireFun DD86Cmd	AH8F2001	Enable 86		GBM IL DSE		--Y -- ---	<p>ACZ4M109</p>																																					
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		Wait 40 seconds to allow STR mode to be updated in TM																																																
		Verify Telemetry <p style="text-align: center;">STRM Mode AEX04001</p> <p style="text-align: center;">= Standby</p>		AND=ZAA05999																																														
8		Define & Enable DTM (SA10D1 & SA14D)		Next Step: 9																																														

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		<p>***** WARNING *****</p> <p>Nominal operations have the "9 Stars + AGBE" DTM packet (DTM_7) enable at 1Hz.</p> <p>To prevent CDMU 1553 bus overload and subsequent loss of TM packets when SA10D & SA14D are enabled, DTM_7 disabled via procedure: H_FCP_AOC_D3FD (Step 15)</p> <p>Edit sequence HFAD3FDN to <u>disable without deletion</u></p>																																						
8.1		Define DTM for SA10D1 and SA14D		<input type="checkbox"/>																																				
		<p>Execute Telecommand</p> <p style="text-align: center;">TC32H STR SA10D1 Super</p> <p>ACZYA109</p> <p>Command Parameter(s) :</p> <table border="0"> <tr> <td>HK Packet ID</td> <td>AH3PK109</td> <td>100 <dec> (Def)</td> </tr> <tr> <td>TC3x_SID</td> <td>AHW04109</td> <td>DTM Str12Sa10s</td> </tr> <tr> <td>Interval</td> <td>AH3SA109</td> <td>(Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>4 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> </tr> </table>	HK Packet ID	AH3PK109	100 <dec> (Def)	TC3x_SID	AHW04109	DTM Str12Sa10s	Interval	AH3SA109	(Def)	DID number	AH3PA109	4 <dec> (Def)	DID number	AH3PA109	16447 <dec> (Def)	DID number	AH3PA109	16447 <dec> (Def)	DID number	AH3PA109	16447 <dec> (Def)	DID number	AH3PA109	16447 <dec> (Def)	DID number	AH3PA109	16780 <dec> (Def)	DID number	AH3PA109	16780 <dec> (Def)	DID number	AH3PA109	16780 <dec> (Def)	DID number	AH3PA109	16780 <dec> (Def)		
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		<p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE --Y -- --</p> <p>Subsch. ID : 20 Det. descr. : TC(3,2) Define H DTM STR 1/2 SA10D1 Supersampled</p>																																						

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		Execute Telecommand <p style="text-align: right;">TC32H STR SA14D Super</p> Command Parameter(s) : <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">HK Packet ID</td> <td style="width: 20%;">AH3PK109</td> <td style="width: 20%;">105 <dec> (Def)</td> <td style="width: 40%;"></td> </tr> <tr> <td>TC3x_SID</td> <td>AHW04109</td> <td>DTM Str12Sa14s</td> <td></td> </tr> <tr> <td>Interval</td> <td>AH3SA109</td> <td>(Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>4 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16743 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16743 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16743 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16743 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>17076 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>17076 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>17076 <dec> (Def)</td> <td></td> </tr> </table>	HK Packet ID	AH3PK109	105 <dec> (Def)		TC3x_SID	AHW04109	DTM Str12Sa14s		Interval	AH3SA109	(Def)		DID number	AH3PA109	4 <dec> (Def)		DID number	AH3PA109	16743 <dec> (Def)		DID number	AH3PA109	16743 <dec> (Def)		DID number	AH3PA109	16743 <dec> (Def)		DID number	AH3PA109	16743 <dec> (Def)		DID number	AH3PA109	17076 <dec> (Def)		DID number	AH3PA109	17076 <dec> (Def)		DID number	AH3PA109	17076 <dec> (Def)		ACZYF109	
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8.2		Enable DTM for SA10D1 and SA14D		□																																												
		Execute Telecommand <p style="text-align: right;">EnableTmGen</p> Command Parameter(s) : <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">N</td> <td style="width: 20%;">AH017070</td> <td style="width: 20%;">1 <dec> (Def)</td> <td style="width: 40%;"></td> </tr> <tr> <td>Sub-Type</td> <td>AH019070</td> <td>Diag Report</td> <td></td> </tr> <tr> <td>Packet-ID</td> <td>AH020070</td> <td>100 <dec></td> <td></td> </tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- --</p> Subsch. ID : 20 Det. descr. : Enable Generation of Telemetry Packets	N	AH017070	1 <dec> (Def)		Sub-Type	AH019070	Diag Report		Packet-ID	AH020070	100 <dec>		AC900070																																	
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		Execute Telecommand EnableTmGen Command Parameter(s) : N AH017070 Sub-Type AH019070 Packet-ID AH020070 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : Enable Generation of Telemetry Packets	AC900070 1 <dec> (Def) Diag Report 105 <dec>	
		Verify Packet Reception H DTM STR1-2 SA10D1 Supersampled Packet Details: APID: 514 Type: 3 Subtype: 26 PI1: 20000 PI2:	A3DHSTRSA10S	
		Verify Packet Reception H DTM STR1-2 SA14D Supersampled Packet Details: APID: 514 Type: 3 Subtype: 26 PI1: 20005 PI2:	A3DHSTRSA14S	
TC Seq. Name :NULLSEQ02 (Null Sequence 02) TimeTag Type: Sub Schedule ID: □				
9		Range of CCD blocks to be dumped		Next Step: Entire_CCD 10 Single_CCD_block 12 Multiple_CCD_blocks 15
TC Seq. Name :HFA8CCZZ (Dump all STRM image) TimeTag Type: N Sub Schedule ID: Formal Parameter List : STRConf Unit DumpSTR=				
10		Dump entire CCD		Next Step: 11

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		<i>The startracker CCD is downlinked in 100 blocks of 51 x 51 pixels. This gives dumps of 2601 pixels per command, which is well below the maximum number of 3056 pixels that can be dumped using a single command. The dump commands have been tagged with release times separating them by 36 seconds each, which leaves enough time for the internal telemetry buffer in the startracker to empty itself.</i>		
10.1		Load sequence HF8CCZZ on the Manual Stack		<input type="checkbox"/>
		When loading this command sequence on the Manual Stack, it will ask you to enter a value for the formal parameter inside the sequence, which is: - DumpSTR = The identity of the STR to be dumped (0=MainSRT, 1=STR-1, 2=STR-2, 3=RedundantSTR)		
		***** NOTE ***** This sequence has been specially prepared to provide an integration time of 250ms (i.e. raw value of last data word in TC=50), which is the same time used during normal STR operation in AAD [N.B. sequence HF8CCMX has a 500ms integration time (i.e. raw value of last data word in TC=100)]		
10.2		Uplink entire block of commands (tagged with release times); note that the entire uplink will take 1 hour		<input type="checkbox"/>
	ET=+ UT=+00.00.00	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 TC Control Flags : GBM IL DSE --Y -- ---	ACXC1001	CCD Image DumpSTR 2 <dec> 52 <dec> 2 <dec> 52 <dec> 50 <dec>
		Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION		

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	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 2 <dec> 52 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 2 <dec> 52 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 53 <dec> 103 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 53 <dec> 103 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 53 <dec> 103 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 104 <dec> 154 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 <i>Subsch. ID : 20</i> Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 104 <dec> 154 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 <i>Subsch. ID : 20</i> Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 104 <dec> 154 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 104 <dec> 154 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 104 <dec> 154 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
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Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 104 <dec> 154 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 104 <dec> 154 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 104 <dec> 154 <dec> 50 <dec>	
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	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 155 <dec> 205 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 155 <dec> 205 <dec> 50 <dec>	
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 155 <dec> 205 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 155 <dec> 205 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 206 <dec> 256 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 206 <dec> 256 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 <i>Subsch. ID : 20</i> Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 <i>Subsch. ID : 20</i> Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 206 <dec> 256 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 STRCfgr Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 257 <dec> 307 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 257 <dec> 307 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 257 <dec> 307 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 308 <dec> 358 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 308 <dec> 358 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 308 <dec> 358 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 359 <dec> 409 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 STRCfg Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 359 <dec> 409 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 359 <dec> 409 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 410 <dec> 460 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 410 <dec> 460 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 410 <dec> 460 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 2 <dec> 52 <dec> 461 <dec> 511 <dec> 50 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 53 <dec> 103 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 104 <dec> 154 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 155 <dec> 205 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 206 <dec> 256 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 STRCfgr Data Wrdr AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 257 <dec> 307 <dec> 461 <dec> 511 <dec> 50 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 308 <dec> 358 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	ACXC1001 CCD Image DumpSTR 359 <dec> 409 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 <i>Subsch. ID : 20</i> <i>Det. descr. : TC_COMMAND_STR_CONFIGURATION</i>	ACXC1001 CCD Image DumpSTR 410 <dec> 460 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> <i>Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config</i>	ACZ4M109	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config <i>Command Parameter(s) :</i> STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 STRCfgr Data Wrds AHFX9001 <i>Subsch. ID : 20</i> <i>Det. descr. : TC_COMMAND_STR_CONFIGURATION</i>	ACXC1001 CCD Image DumpSTR 461 <dec> 511 <dec> 461 <dec> 511 <dec> 50 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config <i>Subsch. ID : 20</i> <i>Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config</i>	ACZ4M109	
10.3		<i>Monitor CCD dump via parameters in packet SA14; the startracker internal telemetry buffer will send the data in blocks of 26 parameters (corresponding to the readout of 26 pixels) per software cycle</i>		☐
		<i>The following TM parameters point to single blocks of image dump data in the the SA14 diagnostic used in the procedure: STR1 - AMKX9074 STR2 - AMKX9075 Reconstruction of the CCD image for each commanded window by must carried out by post-processing of the data present in the DTM.</i>		

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		<i>For STR1, monitor the following</i>		
		Verify Packet Telemetry STR1 Initcol im AMXKP074		AND=ZAAD0999
		Verify Packet Telemetry STR1 Initrow im AMXKR074		AND=ZAAD0999
		Verify Packet Telemetry STR1 Val pix 1 AMXKS074		AND=ZAAD0999
	 and intermediate pixel values up to		
		Verify Packet Telemetry STR1 Val pix26 AMXLH074		AND=ZAAD0999
		<i>For STR2, monitor the following</i>		
		Verify Telemetry STR2 Init col i AMXKP075		AND=ZAAD3999
		Verify Telemetry STR2 Init row i AMXKR075		AND=ZAAD3999
		Verify Telemetry STR2 Val pix 1 AMXKS075		AND=ZAAD3999
	 and intermediate pixel values up to		
		Verify Telemetry STR2 Val pix 26 AMXLH075		AND=ZAAD3999
11		Retrieve the data		Next Step: 17

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		The data generated by the STR in response to the image dump command is stored in an internal telemetry buffer within the unit. Each packet of telemetry (corresponding to a single readout of the image dump subaddress through the ACMS bus) contains the time-tag for the CCD exposure which generated the image data, position of the first pixel of the image data packet and the output values for 26 individual pixels. The buffer is dimensioned for 128 packets (dump of the largest allowed window of 3056 pixels generates 118 packets). The buffer is scanned cyclically by the STR software and a new packet is returned after each interrogation of the image dump subaddress (SA14). The entire buffer is refreshed following the execution of each image dump command. The cyclic readout of the telemetry buffer is not synchronised with the refreshing of the buffer. As a consequence, the user must wait at least 32 seconds (128 ACC cycles) to make sure that the entire buffer has been downloaded.		
		The following TM parameters point to single blocks of image dump data in the the SA14 diagnostic used in the procedure: STR1 - AMKX9074 STR2 - AMKX9075 Reconstruction of the CCD image for each commanded window by must carried out by post-processing of the data present in the DTM.		
<p>TC Seq. Name :HFA8CCZB (Dump part STRM image)</p> <p>TimeTag Type: Sub Schedule ID: Formal Parameter List : STRConf Unit DumpSTR= STRCfg Data Wrđ 1stCol= <dec> STRCfg Data Wrđ LastCol= <dec> STRCfg Data Wrđ 1stRow= <dec> STRCfg Data Wrđ LastRow= <dec> STRCfg Data Wrđ IntTime= <dec></p>				
12		Dump a single CCD block		Next Step: 13
		Note: The total number of pixels which can be dumped in a single command is 3056. If a larger area is to be dumped, then the area must be split into row and column areas totalling less then 3057, and Step 11 & 12 must be repeated for each of these areas.		
12.1		Load sequence HFA8CCMB on the Manual Stack		<input type="checkbox"/>

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch																																	
		<p>When loading this command sequence on the Manual Stack, it will ask you to enter values for the formal parameters inside the sequence, which are:</p> <ul style="list-style-type: none"> - DumpSTR = The identity of the STR to be dumped (0=MainSRT, 1=STR-1, 2=STR-2, 3=RedundantSTR) - 1stCol = First column of the dump window (value in the range from 2 to 511) - LastCol = Last column of the dump windows (value in the range from 2 to 511 and larger than 1stCol) - 1stRow = First row of the dump window (value in the range from 2 to 511) - LastRow = Last row of the dump window (value in the range from 2 to 511 and larger than 1stRow) - IntTime = Integration time expressed as an integer with the LSB corresponding to 5 msec; the largest allowed value is 800 (equivalent to 4000 msec). 																																			
12.2		Command the CCD Dump		☐																																	
		<p>Execute Telecommand</p> <p style="text-align: center;">Command STR config</p> <p>Command Parameter(s) :</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">ASW Function ID</td> <td style="width: 30%;">AHFUN001</td> <td style="width: 40%;">STR config (Def)</td> </tr> <tr> <td>STRCfG DF86 Cmd</td> <td>AH8J3001</td> <td>Enable 86</td> </tr> <tr> <td>STRCfG DD86 Cmd</td> <td>AH8J4001</td> <td>Enable 86</td> </tr> <tr> <td>STRConf HP_ID</td> <td>AHFX1001</td> <td>Herschel only</td> </tr> <tr> <td>STRConf 1553 TR</td> <td>AHFX6001</td> <td>Receive</td> </tr> <tr> <td>STRConf Subaddr</td> <td>AHFX4001</td> <td>CCD Image</td> </tr> <tr> <td>STRConf Unit</td> <td>AHFX5001</td> <td>DumpSTR</td> </tr> <tr> <td>STRConf DWC MC</td> <td>AHFX7001</td> <td>5 <dec></td> </tr> <tr> <td>STRCfG Nrof Wrd</td> <td>AHFX8001</td> <td>5 <dec></td> </tr> <tr> <td>STRCfG Data Wrd</td> <td>AHFX9001</td> <td>1stCol</td> </tr> <tr> <td>STRCfG Data Wrd</td> <td>AHFX9001</td> <td>LastCol</td> </tr> </table>	ASW Function ID	AHFUN001	STR config (Def)	STRCfG DF86 Cmd	AH8J3001	Enable 86	STRCfG DD86 Cmd	AH8J4001	Enable 86	STRConf HP_ID	AHFX1001	Herschel only	STRConf 1553 TR	AHFX6001	Receive	STRConf Subaddr	AHFX4001	CCD Image	STRConf Unit	AHFX5001	DumpSTR	STRConf DWC MC	AHFX7001	5 <dec>	STRCfG Nrof Wrd	AHFX8001	5 <dec>	STRCfG Data Wrd	AHFX9001	1stCol	STRCfG Data Wrd	AHFX9001	LastCol	ACXC1001	
ASW Function ID	AHFUN001	STR config (Def)																																			
STRCfG DF86 Cmd	AH8J3001	Enable 86																																			
STRCfG DD86 Cmd	AH8J4001	Enable 86																																			
STRConf HP_ID	AHFX1001	Herschel only																																			
STRConf 1553 TR	AHFX6001	Receive																																			
STRConf Subaddr	AHFX4001	CCD Image																																			
STRConf Unit	AHFX5001	DumpSTR																																			
STRConf DWC MC	AHFX7001	5 <dec>																																			
STRCfG Nrof Wrd	AHFX8001	5 <dec>																																			
STRCfG Data Wrd	AHFX9001	1stCol																																			
STRCfG Data Wrd	AHFX9001	LastCol																																			
		<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">STRCfG Data Wrd</td> <td style="width: 30%;">AHFX9001</td> <td style="width: 40%;">1stRow</td> </tr> <tr> <td>STRCfG Data Wrd</td> <td>AHFX9001</td> <td>LastRow</td> </tr> <tr> <td>STRCfG Data Wrd</td> <td>AHFX9001</td> <td>IntTime</td> </tr> </table> <p>TC Control Flags :</p> <p style="text-align: center;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION</p>	STRCfG Data Wrd	AHFX9001	1stRow	STRCfG Data Wrd	AHFX9001	LastRow	STRCfG Data Wrd	AHFX9001	IntTime																										
STRCfG Data Wrd	AHFX9001	1stRow																																			
STRCfG Data Wrd	AHFX9001	LastRow																																			
STRCfG Data Wrd	AHFX9001	IntTime																																			

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand <p style="text-align: center;">Fire Cmd STR config</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 - Fire Cmd STR config	ACZ4M109	
		Note: The execution of the image dump command by the STR cannot be verified by monitoring the operating mode of the unit if the commanded integration time is less than the ACC cycle. This is due to the fact that the CDI mode is transitory and the STR software returns to standby mode automatically so that for short exposures the mode change will not be captured by the ACC.		
13		Retrieve the data		Next Step: 14
		The data generated by the STR in response to the image dump command is stored in an internal telemetry buffer within the unit. Each packet of telemetry (corresponding to a single readout of the image dump subaddress through the ACMS bus) contains the time-tag for the CCD exposure which generated the image data, position of the first pixel of the image data packet and the output values for 26 individual pixels. The buffer is dimensioned for 128 packets (dump of the largest allowed window of 3056 pixels generates 118 packets). The buffer is scanned cyclically by the STR software and a new packet is returned after each interrogation of the image dump subaddress (SA14). The entire buffer is refreshed following the execution of each image dump command. The cyclic readout of the telemetry buffer is not synchronised with the refreshing of the buffer. As a consequence, the user must wait at least 32 seconds (128 ACC cycles) to make sure that the entire buffer has been downloaded.		
		The following TM parameters point to single blocks of image dump data in the the SA14 diagnostic used in the procedure: STR1 - AMKX9074 STR2 - AMKX9075 Reconstruction of the CCD image for each commanded window by must carried out by post-processing of the data present in the DTM.		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
14		All required CCD areas now dumped?		Next Step: NO 12 YES 17
		Note: The total number of pixels which can be dumped in a single command is 3056. If a larger area is to be dumped, then the area must be split into row and column areas totalling less then 3057, and Step 10 & 11 must be repeated for each of these areas.		
<p>TC Seq. Name :HFA8CCZY (Dump blocks STRM ima)</p> <p>TimeTag Type: Sub Schedule ID:</p> <p><input type="checkbox"/></p>				
15		Dump multiple CCD blocks		Next Step: 16
		Note: The total number of pixels which can be dumped in a single command is 3056. If a larger area is to be dumped, then the area must be split into row and column areas totalling less then 3057, and Step 11 & 12 must be repeated for each of these areas.		
15.1		Load sequence HFA8CCMY on the Manual Stack		<input type="checkbox"/>
		When loading this command sequence on the Manual Stack, it will ask you to enter a value for the formal parameter inside the sequence, which is: - DumpSTR = The identity of the STR to be dumped (0=MainSRT, 1=STR-1, 2=STR-2, 3=RedundantSTR)		
15.2		Command the CCD dump from corner block		<input type="checkbox"/>
		Execute Telecommand	Command STR config ACXC1001	
		Command Parameter(s) :		
		ASW Function ID	AHFUN001	STR config (Def)
		STRCfG DF86 Cmd	AH8J3001	Enable 86
		STRCfG DD86 Cmd	AH8J4001	Enable 86
		STRConf HP_ID	AHFX1001	Herschel only
		STRConf 1553 TR	AHFX6001	Receive
		STRConf Subaddr	AHFX4001	CCD Image
		STRConf Unit	AHFX5001	(Def)
		STRConf DWC MC	AHFX7001	5 <dec>
		STRCfG Nrof Wrđ	AHFX8001	5 <dec>
		STRCfG Data Wrđ	AHFX9001	2 <dec>
		STRCfG Data Wrđ	AHFX9001	52 <dec>

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 TC Control Flags : Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	2 <dec> 52 <dec> 100 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof WrD AHFX8001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 53 <dec> 103 <dec>	
		STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	2 <dec> 52 <dec> 100 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof WrD AHFX8001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 2 <dec> 52 <dec>	
		STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	53 <dec> 103 <dec> 100 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof WrD AHFX8001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 53 <dec> 103 <dec>	
		STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	53 <dec> 103 <dec> 100 <dec>	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	
		Note: <i>The execution of the image dump command by the STR cannot be verified by monitoring the operating mode of the unit if the commanded integration time is less the ACC cycle. This is due to the fact that the CDI mode is transitory and the STR software returns to standby mode automatically so that for short exposures the mode change will not be captured by the ACC.</i>		
15.3		Command the CCD dump from center block		<input type="checkbox"/>
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof Wrđ AHFX8001 STRCfG Data Wrđ AHFX9001 STRCfG Data Wrđ AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 206 <dec> 256 <dec>	
		STRCfG Data Wrđ AHFX9001 STRCfG Data Wrđ AHFX9001 STRCfG Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	206 <dec> 256 <dec> 100 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof WrD AHFX8001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 257 <dec> 307 <dec>	
		STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	206 <dec> 256 <dec> 100 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof WrD AHFX8001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 206 <dec> 256 <dec>	
		STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 STRCfG Data WrD AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	257 <dec> 307 <dec> 100 <dec>	

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	
	ET=+ UT=+00.00.35	Execute Telecommand Command STR config Command Parameter(s) : ASW Function ID AHFUN001 STRCfG DF86 Cmd AH8J3001 STRCfG DD86 Cmd AH8J4001 STRConf HP_ID AHFX1001 STRConf 1553 TR AHFX6001 STRConf Subaddr AHFX4001 STRConf Unit AHFX5001 STRConf DWC MC AHFX7001 STRCfG Nrof Wrđ AHFX8001 STRCfG Data Wrđ AHFX9001 STRCfG Data Wrđ AHFX9001	ACXC1001 STR config (Def) Enable 86 Enable 86 Herschel only Receive CCD Image (Def) 5 <dec> 5 <dec> 257 <dec> 307 <dec>	
		STRCfG Data Wrđ AHFX9001 STRCfG Data Wrđ AHFX9001 STRCfG Data Wrđ AHFX9001 Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION	257 <dec> 307 <dec> 100 <dec>	
	ET=+ UT=+00.00.01	Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config	ACZ4M109 Enable 86 Enable 86	
		Note: <i>The execution of the image dump command by the STR cannot be verified by monitoring the operating mode of the unit if the commanded integration time is less than the ACC cycle. This is due to the fact that the CDI mode is transitory and the STR software returns to standby mode automatically so that for short exposures the mode change will not be captured by the ACC.</i>		
16		Retrieve the data		Next Step: 17

Dump STRM CCD Image
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 Author: dsalt-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		The data generated by the STR in response to the image dump command is stored in an internal telemetry buffer within the unit. Each packet of telemetry (corresponding to a single readout of the image dump subaddress through the ACMS bus) contains the time-tag for the CCD exposure which generated the image data, position of the first pixel of the image data packet and the output values for 26 individual pixels. The buffer is dimensioned for 128 packets (dump of the largest allowed window of 3056 pixels generates 118 packets). The buffer is scanned cyclically by the STR software and a new packet is returned after each interrogation of the image dump subaddress (SA14). The entire buffer is refreshed following the execution of each image dump command. The cyclic readout of the telemetry buffer is not synchronised with the refreshing of the buffer. As a consequence, the user must wait at least 32 seconds (128 ACC cycles) to make sure that the entire buffer has been downloaded.		
		The following TM parameters point to single blocks of image dump data in the the SA14 diagnostic used in the procedure: STR1 - AMKX9074 STR2 - AMKX9075 Reconstruction of the CCD image for each commanded window by must carried out by post-processing of the data present in the DTM.		
TC Seq. Name :HFA8CCZC (STRM_to_AAD) TimeTag Type: Sub Schedule ID: <input type="checkbox"/>				
17		Disable & Delete DTM (SA10D1 & SA14D)		Next Step: 18
		***** ALERT ***** TCs in this sequence are time-tagged to support Step 3 Select the <u>immediate execution</u> button when loading this sequence after the CCD dump has been completed		

Dump STRM CCD Image
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
	ET=+00.00.01 UT=+	Execute Telecommand Fire Cmd STR config 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 Cmd STR config	ACZ4M109 Disable 86 Disable 86	
		Wait 30 seconds to allow the STR tracking mode to be reflected in TM		
		Verify Telemetry STRM Mode AEX04001	= Auto attdetect	AND=ZAA05999
		Verify Telemetry STRM Submode AEX03001	= STB nom ATFAD	AND=ZAA05999
		Verify Telemetry STRM AAD status AEX65001	= ATFAD q valid	AND=ZAA06999
		Verify Telemetry STRM 1 trackwin AEX61001	= More 1 trk wnd	AND=ZAA06999
		Verify Telemetry STRM Att qual AEXMY001		AND=ZAA05999
19		Declare STR main healthy		Next Step: 20
	ET=+00.01.00 UT=+	Execute Telecommand mSTR healthy 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) - mSTR healthy defSGM	ACYH8109 Enable 86 Enable 86	
		Wait 30 seconds to allow the new STR health status to be reflected in essential TM		
20		Verify health status of STR main		Next Step: 21
20.1		Check health status if STRmain = STR1		□

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Curr STR in use AES18002	= STR 1	AND=ZAA01999
		Verify Telemetry STR1 Health Sts AES31002	= Healthy	AND=ZAA02999
20.2		Check health status if STRmain = STR2		☐
		Verify Telemetry Curr STR in use AES18002	= STR 2	AND=ZAA01999
		OR Verify Telemetry STR2 Health Sts AES32002	= Healthy	AND=ZAA02999
21		Enable STR reconfiguration		Next Step: 22
	ET=+00.00.10 UT=+	Execute Telecommand En STR reconfiguration Command Parameter(s) : EnaRcf DF86Cmd AH8E3001 EnaRcf DD86Cmd AH8E4001 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) - Enable reconfiguration - En STR reconfiguration	ACZGN109 Enable 86 Enable 86	
TC Seq. Name : NULLSEQ03 (Null Sequence 03)				
TimeTag Type: Sub Schedule ID: ☐				
22		Delete sequence HFA8CCMC from the MTL		Next Step: END
		<p>***** WARNING *****</p> <p>If timetagged versions of these TCs were uplinked to the MTL, deleted them now via procedure: H_FCP_DHS_3024 (Steps 10-13)</p> <p><u>ALTERNATIVELY</u></p> <p>Request the Spacon to delete the TCs from the MTL</p>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Procedure: H_FCP_DHS_3024 Normal MTL maintenance		
End of Procedure				