

Make STR2 operational and configure mode
File: H_FCP_AOC_8ON2.xls
Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS procedure is to make STR2 operational and configured in an appropriate mode (i.e. INI, STB or AAD/ATFAD). The activities enable a number of configurations to be selected using commands and telemetry related primarily to the physical unit (i.e. independent of it being declared as Main or Redundant).

The procedure involves the following activities:

- change STRmain selection, if necessary
- check LCL status and configure, if necessary
- load Diagnostic TM definitions (SA10/11/15/19)
- disable FDIR check on STR loss
- STR2 switch ON
- command to Stand-by loading memory image from EEPROM, if necessary
- verify STR2 status via DTM, as necessary
- update spacecraft velocity vector, if necessary (calls H_FCP_AOC_4S41)
- command STR2 transition to AAD/ATFAD mode, if required
- verify tracking in ATFAD submode via DTM, as necessary
- enable FDIR check on STR loss
- disable FDIR check on STR Hk data
- delete DTM definitions (SA10/11/15/19)

Summary of Constraints

Main constraints:

- ACMS must be in SAM
- as procedure uses DTMs, the operator must make sure no more than one other DTM is enabled when this procedure is executed.

Spacecraft Configuration

Start of Procedure

Spacecraft initial conditions:

- S/C in SAM
- STR2 not switched ON

End of Procedure

Spacecraft final conditions:

- as initial but with STR2 switched ON
- SRT2 in INI, STB or AAD/ATFAD mode, as required

Reference File(s)

Input Command Sequences

Output Command Sequences

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HFA8ON2A
 HFA8ON2B
 HFA8ON2C
 HFA8ON2D
 HFA8ON2E
 HFA8ON2F
 HFA8ON2G
 HFA8ON2H
 HFA8ON2I

Referenced Displays

| ANDs | GRDs | SLDs |
|----------|------|------|
| ZAA01999 | | |
| ZAD02999 | | |
| ZAD08999 | | |
| ZAA06999 | | |
| ZAA05999 | | |
| ZAAAD999 | | |
| ZAAA3999 | | |
| ZAADB999 | | |
| ZAADK999 | | |
| ZAAAM999 | | |

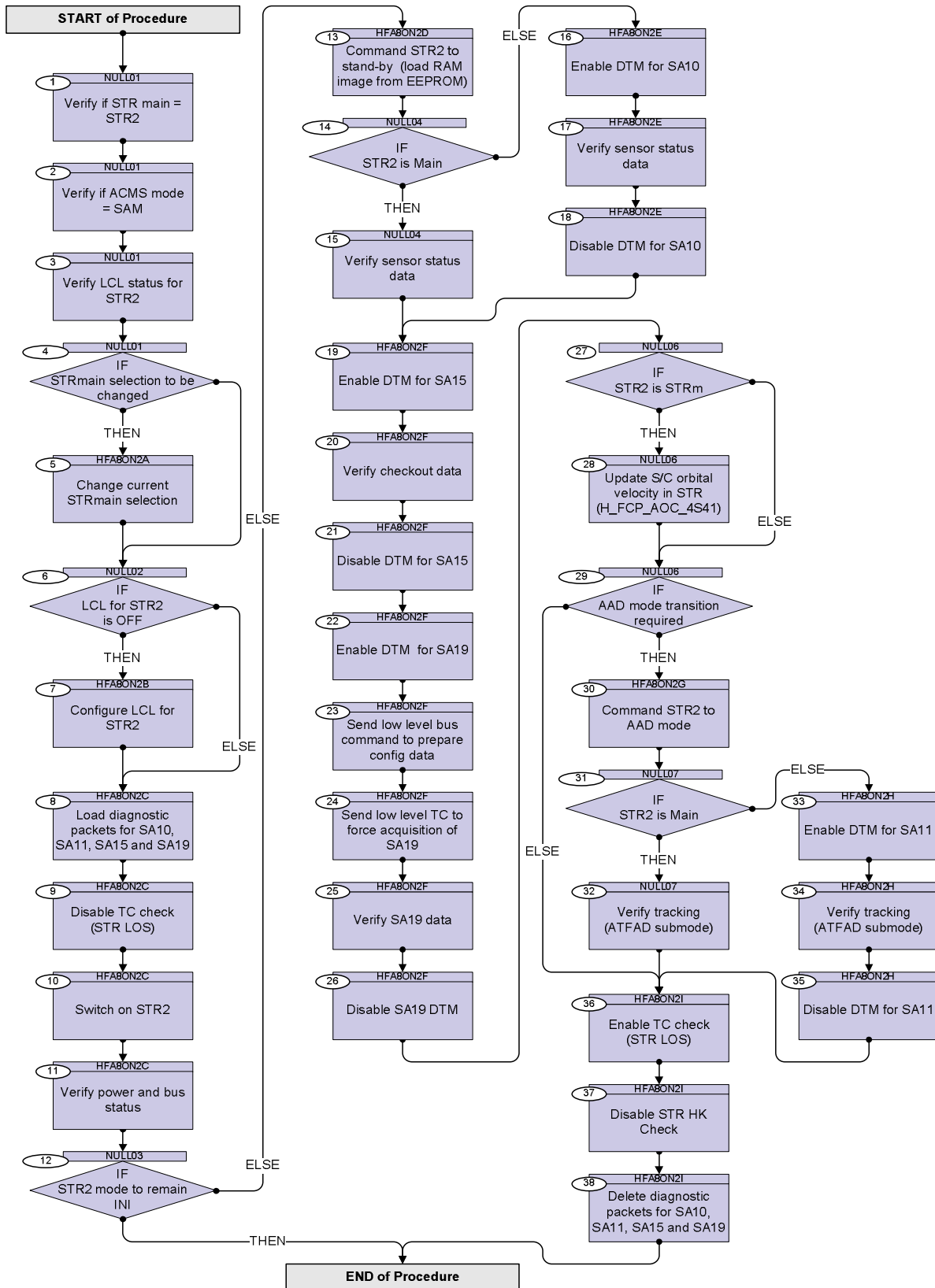
Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|------------|-----------|---------|---|----------|---------|
| 03/08/2008 | 1 | 1 | Created | dsalt-hp | |
| 22/03/2009 | 2.2 | 2 | Steps 9 & 36 added to disable & enable STR LOS check to avoid Moon blinding, as per Section 2.1.1 of H-P-4-DS-MA-007 (Issue 2, Rev.5) | dsalt-hp | |
| 07/09/2010 | | 3 | TCs now included in Step 28 to set STRM ref.temp. to -10C in 3 steps, with link to generic sequence (HFA4S81X) removed. | dsalt-hp | |
| 02/03/2011 | 3.1 | 4 | Step 37 added to disable STR Hk Check and steps removed to change CCD temp. (was 27, 28) | 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 :NULL01 (Null Sequence 01) | | | | |
| TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 1 | | Verify if STR main = STR2 | | Next Step: 2 |
| | | Verify Telemetry Curr STR in use AES18002 = STR 2 | | AND=ZAA01999 |
| 2 | | Verify if ACMS mode = SAM | | Next Step: 3 |
| | | Verify Telemetry AcmsMode AESMG002 = SAM | | AND=ZAA01999 |
| 3 | | Verify LCL status for STR2 | | Next Step: 4 |
| | | Verify Telemetry STR_2_L22_S WM12C565 = ON | | AND=ZAD02999 |
| | | Verify Telemetry STR_2_L22_I WM108565 > 0.000 A | | AND=ZAD02999 |
| 4 | | IF STRmain selection to be changed | | Next Step: THEN 5 ELSE 6 |
| TC Seq. Name :HFABON2A (Change STRmain selection) | | | | |
| TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 5 | | Change current STRmain selection | | Next Step: 6 |
| 5.1 | | Command STR1 to be designated STRmain | | <input type="checkbox"/> |
| | | NOTE: Delete the following TC from the Manual Stack if STR2 is to be designated as STRmain | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|--|------|---|----------|--------------------------------|
| | | Execute Telecommand <p style="text-align: right;">Select STR 1</p> Command Parameter(s) : NomConf DF86Cmd AH8N1001 Enable 86 NomConf DD86Cmd AH8N2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Mod Nom Conf - Select STR 1 | ACZ00109 | |
| | | Verify Telemetry <p style="text-align: center;">Curr STR in use AES18002</p> | = STR 1 | AND=ZAA01999 |
| 5.2 | | Command STR2 to be designated STRmain | | <input type="checkbox"/> |
| | | NOTE: Delete the following TC from the Manual Stack if STR1 is to be designated as STRmain | | |
| | | Execute Telecommand <p style="text-align: right;">Select STR 2</p> Command Parameter(s) : NomConf DF86Cmd AH8N1001 Enable 86 NomConf DD86Cmd AH8N2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Mod Nom Conf - Select STR 2 | ACZ01109 | |
| | | Verify Telemetry <p style="text-align: center;">Curr STR in use AES18002</p> | = STR 2 | AND=ZAA01999 |
| TC Seq. Name :NULL02 (Null Sequence 02) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 6 | | IF LCL for STR2 is OFF | | Next Step: THEN 7 ELSE 8 |
| TC Seq. Name :HFA80N2B (LCL switch ON for STR2) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|------|---|-----------|--------------------------|
| 7 | | Configure LCL for STR2 | | Next Step: 8 |
| 7.1 | | LCL22 switch ON | | <input type="checkbox"/> |
| | | If the LCL required is not ON then first verify that PCDU Status is "running" and, if so, then use TC DC22D170 to switch on LCL22 of STR2 | | |
| | | Verify Telemetry PcdusSts DEH45170 | = Running | AND=ZAD08999 |
| | | Execute Telecommand SwOn_Str_2_L22 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : PCDU: TC(8,4,112,5) STR 2 - switch LCL_22 on | DC22D170 | |
| 7.2 | | Verify status LCL for STR2 | | <input type="checkbox"/> |
| | | Verify Telemetry STR_2_L22_S WM12C565 | = ON | AND=ZAD02999 |
| | | Verify Telemetry STR_2_L22_I WM108565 | > 0.000 A | AND=ZAD02999 |
| <p>TC Seq. Name :HFA8ON2C (STR2 switch ON)</p> <p>TimeTag Type: Sub Schedule ID: <input type="checkbox"/></p> | | | | |
| 8 | | Load diagnostic packets for SA10, SA11, SA15 and SA19 | | Next Step: 9 |

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|--------------|----------|--|--------------|-----------------|-----------------|--|----------|----------|----------------|--|----------|----------|-------|--|------------|----------|---------------|--|------------|----------|-------------------|--|------------|----------|-------------------|--|------------|----------|-------------------|--|------------|----------|-------------------|--|------------|----------|-------------------|--|------------|----------|-------------------|--|------------|----------|-------------------|--|----------|--|
| | | Execute Telecommand <p style="text-align: right;">TC32H STR SA10D1 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%;">100 <dec> (Def)</td> <td style="width: 40%;"></td> </tr> <tr> <td>TC3x_SID</td> <td>AHW04109</td> <td>DTM Str12Sa10s</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>16447 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16447 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16780 <dec> (Def)</td> <td></td> </tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,2) Define H DTM STR 1/2 SA10D1 Supersampled | 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) | | ACZYA109 | |
| 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) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Execute Telecommand <p style="text-align: right;">TC32H STR SA11D1 1Hz</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%;">118 <dec> (Def)</td> <td style="width: 40%;"></td> </tr> <tr> <td>TC3x_SID</td> <td>AHW04109</td> <td>DTM Str12Sa11s</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>16484 <dec> (Def)</td> <td></td> </tr> <tr> <td>DID number</td> <td>AH3PA109</td> <td>16817 <dec> (Def)</td> <td></td> </tr> </table> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,2) Define H DTM STR 1/2 SA11D1 1Hz | HK Packet ID | AH3PK109 | 118 <dec> (Def) | | TC3x_SID | AHW04109 | DTM Str12Sa11s | | Interval | AH3SA109 | (Def) | | DID number | AH3PA109 | 4 <dec> (Def) | | DID number | AH3PA109 | 16484 <dec> (Def) | | DID number | AH3PA109 | 16817 <dec> (Def) | | ACZyv109 | | | | | | | | | | | | | | | | | | | | | |
| HK Packet ID | AH3PK109 | 118 <dec> (Def) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TC3x_SID | AHW04109 | DTM Str12Sa11s | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interval | AH3SA109 | (Def) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DID number | AH3PA109 | 4 <dec> (Def) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DID number | AH3PA109 | 16484 <dec> (Def) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DID number | AH3PA109 | 16817 <dec> (Def) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|--|-----------------|
| | | Execute Telecommand <p style="text-align: right;">TC32H STR SA15D</p> Command Parameter(s) : HK Packet ID AH3PK109 TC3x_SID AHW04109 Interval AH3SA109 DID number AH3PA109 DID number AH3PA109 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,2) Define H DTM STR 1/2 SA15D | ACZYG109 106 <dec> (Def) DTM Str12Sa15 (Def) 4 <dec> (Def) 16744 <dec> (Def) 17077 <dec> (Def) | |
| | | Execute Telecommand <p style="text-align: right;">TC32H STR SA19D</p> Command Parameter(s) : HK Packet ID AH3PK109 TC3x_SID AHW04109 Interval AH3SA109 DID number AH3PA109 DID number AH3PA109 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,2) Define H DTM STR 1/2 SA19D | ACZYH109 107 <dec> (Def) DTM Str12Sa19 (Def) 4 <dec> (Def) 16764 <dec> (Def) 17097 <dec> (Def) | |
| | | The DTM packet definitions downloaded to verify correct uplinking. | | |
| | | Execute Telecommand <p style="text-align: right;">Report Diag Report Def</p> Command Parameter(s) : Number of pkts AH3NP109 HK Packet ID AH3PK109 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,11) Report Diagnostic Parameter Report Definitions | AC311109 1 <dec> (Def) 100 <dec> | |
| | | Execute Telecommand <p style="text-align: right;">Report Diag Report Def</p> Command Parameter(s) : Number of pkts AH3NP109 HK Packet ID AH3PK109 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,11) Report Diagnostic Parameter Report Definitions | AC311109 1 <dec> (Def) 118 <dec> | |

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|----------|------|--|--|------------------|
| | | Execute Telecommand <p style="text-align: right;">Report Diag Report Def</p> Command Parameter(s) : Number of pkts AH3NP109 HK Packet ID AH3PK109 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,11) Report Diagnostic Parameter Report Definitions | AC311109 1 <dec> (Def) 106 <dec> | |
| | | Execute Telecommand <p style="text-align: right;">Report Diag Report Def</p> Command Parameter(s) : Number of pkts AH3NP109 HK Packet ID AH3PK109 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(3,11) Report Diagnostic Parameter Report Definitions | AC311109 1 <dec> (Def) 107 <dec> | |
| 9 | | Disable TC check (STR LOS) | | Next Step: 10 |
| | | To avoid STR being declared unhealthy due to Moon blinding or other perturbing events, disable the FDIR for STR loss | | |
| | | Execute Telecommand <p style="text-align: right;">DisChkSTRlossStar-initQ</p> Command Parameter(s) : DisChk DF86Cmd AH8C1001 DisChk DD86Cmd AH8C2001 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Disable check FDIR - DisChkSTRlossStar-initQ | ACY6Z109 Enable 86 Enable 86 | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|--|-----------------|
| | | Execute Telecommand <p style="text-align: center;">Fire Disable Check</p> <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Disable Check | ACZ7M109 Enable 86 Enable 86 | |
| | | Verify Telemetry <p style="text-align: center;">STR loss check AES4A001</p> | = Disabled | AND=ZAA06999 |
| 10 | | Switch on STR2 | | Next Step: 11 |
| | | Execute Telecommand <p style="text-align: center;">STR-2 switch ON</p> <i>Command Parameter(s) :</i> UnitSw DF86 Cmd AH8P1001 UnitSw DD86 Cmd AH8P2001 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) Switch ACMS unit on/off - STR-2 switch ON | ACZ42109 Enable 86 Enable 86 | |
| | | Execute Telecommand <p style="text-align: center;">FireSwitchACMSunitONOFF</p> <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 <i>TC Control Flags :</i> GBM IL DSE --Y -- --- <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - FireSwitchACMSunitONOFF | ACZ1M109 Enable 86 Enable 86 | |
| | | Wait 10 seconds to allow the command to be executed | | |
| 11 | | Verify power and bus status | | Next Step: 12 |
| | | Verify Telemetry <p style="text-align: center;">STR-2 pwr sts AMYA0075</p> | = Switch ON | AND=ZAA06999 |
| | | Verify Telemetry <p style="text-align: center;">Comm bus STR2 AES76002</p> | <> Not comm cfg | AND=ZAA01999 |

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|---|------|---|--------|-----------------------------------|
| | | The check on bus configuration is intended to make sure that STR2 is being interrogated. Any bus selection (either A or B) will be accepted as valid. | | |
| | | <p>Note on expected events. A number of events are generated during the powering and installation of the STR. These events may represent status information or warnings due to actions taken autonomously by the ASW.</p> <p>The following are expected immediately after the STR has been powered: TM 5-1-16390 reporting successful power status check for the STR; TM 5-1-16449 reporting a DatGet error on the SA12 block for the STR.</p> <p>The second event is due to the fact that SA12 interrogated late in the cycle and data is not available in the first cycle in which the ASW copies STR data from the data pool.</p> <p>One other event is generated when the STR is commanded to stand-by mode: TM 5-1-16394 reports a HK check trigger caused by the fact that TM_SENSOR_STATUS data becomes available only in the second cycle after the transition to STB mode.</p> <p>Only a single occurrence of either event is expected.</p> | | |
| <p>TC Seq. Name :NULL03 (Null Sequence 03)</p> <p>TimeTag Type: Sub Schedule ID:</p> <p style="text-align: center;">□</p> | | | | |
| 12 | | IF STR2 mode to remain INI | | Next Step: THEN END ELSE 13 |
| <p>TC Seq. Name :HFA8ON2D (Command STR2 to STB)</p> <p>TimeTag Type: Sub Schedule ID:</p> <p style="text-align: center;">□</p> | | | | |
| 13 | | Command STR2 to stand-by (load RAM image from EEPROM) | | Next Step: 14 |

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|----------|------|---|----------|-----------------|
| | | Execute Telecommand <p style="text-align: right;">STR2 STAND_BY</p> Command Parameter(s) : STRCfg DF86 Cmd AH8J3001 Enable 86 STRCfg DD86 Cmd AH8J4001 Enable 86 STRCfg Nrof Wrđ AHFX8001 10 <dec> (Def) STRCfg Data Wrđ AHFX9001 0 <hex> STRCfg Data Wrđ AHFX9001 0 <hex> STRCfg Data Wrđ AHFX9001 400 <hex> STRCfg Data Wrđ AHFX9001 0 <hex> STRCfg Data Wrđ AHFX9001 200 <hex> STRCfg Data Wrđ AHFX9001 8000 <hex> STRCfg Data Wrđ AHFX9001 1 <hex> STRCfg Data Wrđ AHFX9001 D000 <hex> STRCfg Data Wrđ AHFX9001 2000 <hex> STRCfg Data Wrđ AHFX9001 8000 <hex> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) Command STR config - STR2 STAND_BY | ACZM4109 | |
| | | Execute Telecommand <p style="text-align: right;">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 | |
| | | <i>After being powered on the STR must be commanded to stand-by mode with software load. This requires specification of addresses and the number of words to be transferred from the EEPROM. The values valid for the current release of the STR software have been provided as defaults in the listing of the STR stand-by command above.</i> | | |
| | | <i>The transition to stand-by causes a generation of event 5-1-16394 signalling a trigger of the STR HK data check. This is due to the fact that in the first cycle after transition to STB, the HC_STATUS word in the SA10 data block is not valid. Only a single occurrence of the event is expected.</i> | | |

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|---|------|--|------------------|----------------------------------|
| TC Seq. Name : NULL04 (Null Sequence 04) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 14 | | IF STR2 is Main | | Next Step: THEN 15 ELSE 16 |
| 15 | | Verify sensor status data | | Next Step: 19 |
| | | Wait 10 minutes to make sure the STR status is correctly reflected in TM after the commanded mode transition. | | |
| | | NOTE: All checks of sensor status data rely on parameters of the main STR in the ETM packet. These parameters can be acquired independently of the selection of STR1 or STR2. | | |
| | | Verify Telemetry STRM Mode AEX04001 | = Standby | AND=ZAA05999 |
| | | Verify Telemetry STRM Submode AEX03001 | = STB nom ATFAD | AND=ZAA05999 |
| | | Verify Telemetry STRM Mode trans AEX02001 | = Cmd mode trans | AND=ZAA05999 |
| | | Verify Telemetry STRM 1errEEPROM AEX06001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM PROM load AEX07001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM 2err EEPRM AEX08001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM timeout HK AEX0E001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM timeoutEOF AEX0D001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM lastTC sts AEX0G001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM TECcurfail AEX11001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM volt1 fail AEX14001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM volt2 fail AEX13001 | = No failure | AND=ZAA05999 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|------|--|--------------|------------------|
| | | Verify Telemetry STRM volt3 fail AEX12001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM opticTfail AEX15001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM CCDt1fail AEX17001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM CCDt2fail AEX16001 | = No failure | AND=ZAA05999 |
| | | Verify Telemetry STRM hlth summ AEX18001 | = No failure | AND=ZAA05999 |
| | | <i>All analog HK parameters should be within the nominal operating limits.</i> | | |
| | | Verify Telemetry STRM HK volt 1 AEX0S001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM HK volt 2 AEX0T001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM HK volt 3 AEX0U001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM CCD temp1 AEX0V001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM CCD temp2 AEX0W001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM optic temp AEX0X001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM TEC curr AEX0Y001 | | AND=ZAA05999 |
| | | Verify Telemetry STR SEU counter AEX19001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM CCD bkg av AEXB1001 | | AND=ZAA05999 |
| | | Verify Telemetry STRM CCD bkg sd AEXB2001 | | AND=ZAA05999 |
| <p>TC Seq. Name : HFA8ON2E (Verify STR2 sensor status)</p> <p>TimeTag Type: Sub Schedule ID: □</p> | | | | |
| 16 | | Enable DTM for SA10 | | Next Step: 17 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|---|------------------|
| | | Execute Telecommand <p style="text-align: right;">EnableTmGen</p> Command Parameter(s) : N AH017070 Sub-Type AH019070 Packet-ID AH020070 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : Enable Generation of Telemetry Packets | AC900070 1 <dec> (Def) Diag Report 100 <dec> | |
| | | Verify Packet Reception <p style="text-align: right;">H DTM STR1-2 SA15D</p> Packet Details: <p style="text-align: right;">APID: 514 Type: 3 Subtype: 26 PI1: 20006 PI2:</p> | A3DHSTRSA15 | |
| 17 | | Verify sensor status data | | Next Step: 18 |
| | | Wait 20 seconds to make sure the STR status is correctly reflected in TM after the commanded mode transition. | | |
| | | All checks of sensor status data rely on parameters of the main STR in the ETM packet. These parameters can be acquired independently of the selection of STR1 or STR2. | | |
| | | Verify Telemetry <p style="text-align: right;">STR2 Mode AMX12075</p> | = Standby | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 Submode AMX11075</p> | = STB nom ATFAD | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 Mode trans AMX10075</p> | = Cmd mode trans | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 1errEEPROM AMX16075</p> | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 PROM load AMX17075</p> | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 2errEEPROM AMX18075</p> | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 timeout HK AMX1E075</p> | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 timeoutEOF AMX1D075</p> | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry <p style="text-align: right;">STR2 last TC st AMX1G075</p> | = No failure | AND=ZAAAD999 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|--|--------------|-----------------|
| | | Verify Telemetry STR2 TECcurfail AMX24075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 volt1 fail AMX27075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 volt2 fail AMX26075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 volt3 fail AMX25075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 opticTfail AMX28075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 CCDtmp1fai AMX2A075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 CCDtmp2fai AMX29075 | = No failure | AND=ZAAAD999 |
| | | Verify Telemetry STR2 hlth summ AMX2B075 | = No failure | AND=ZAAAD999 |
| | | <i>All analog HK parameters should be within the nominal operating limits.</i> | | |
| | | Verify Telemetry STR2 HK Volt 1 AMX1Y075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 HK Volt 2 AMX1Z075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 HK Volt 3 AMX20075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 CCD temp 1 AMX1V075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 CCD temp 2 AMX1W075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 Optic temp AMX1X075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 TEC Curr AMX21075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 SEU cntr AMX2F075 | | AND=ZAAAD999 |
| | | CHECK on the STR2 equivalents for the following TM | | |
| | | Verify Telemetry STRM CCD bkg av AEXB1001 | | AND=ZAA05999 |
| | | Verify Telemetry Mean CCD LocBkg AMX2J074 | | AND=ZAAA3999 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|------|---|---|------------------|
| | | Verify Telemetry STR2 MeanCCDloc AMX2J075 | | AND=ZAAAD999 |
| | | Verify Telemetry Mean CCDGlobBkg AMX2N074 | | AND=ZAAA3999 |
| | | Verify Telemetry STR2 Mean CCDgl AMX2N075 | | AND=ZAAAD999 |
| | | CHECK on the STR2 equivalents for the following TM | | |
| | | Verify Telemetry STRM CCD bkg sd AEXB2001 | | AND=ZAA05999 |
| | | Verify Telemetry STR2 RMS CCDloc AMX2K075 | | AND=ZAAAD999 |
| | | Verify Telemetry STR2 RMS CCDgl AMX2P075 | | AND=ZAAAD999 |
| 18 | | Disable DTM for SA10 | | Next Step: 19 |
| | | STR checkout data from SA10 need to be verified only once after start-up. This makes it possible to disable the DTM packet for SA10 and use STR diagnostic packet one at a time during the installation of the unit. Obviously, the packets can also be used in contingencies when error status data may be needed for troubleshooting. | | |
| | | Execute Telecommand DisableTmGen Command Parameter(s) : N AH017070 Sub-Type AH019070 Packet-ID AH020070 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : Disable Generation of Telemetry Packets | AC902070 1 <dec> (Def) Diag Report 100 <dec> | |
| TC Seq. Name : HFA8ON2F (Verify DTM data from SA15/19) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 19 | | Enable DTM for SA15 | | Next Step: 20 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|---|------------------|
| | | 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 106 <dec> | |
| | | Verify Packet Reception Packet Details: H DTM STR1-2 SA15D APID: 514 Type: 3 Subtype: 26 PI1: 20006 PI2: | A3DHSTRSA15 | |
| 20 | | Verify checkout data | | Next Step: 21 |
| | | <i>A subset of STR checkout data (bits from the RST_STATUS) word is available for the main STR in ETM. Remaining data must be obtained for the specific unit through the SA15 diagnostic package.</i> | | |
| | | Verify Telemetry STR2 reset type AMXM8075 | = HW reset | AND=ZAADB999 |
| | | Verify Telemetry STR2 aut SWrst AMXM6075 | = SW reset | AND=ZAADB999 |
| | | <i>The setting used above for the STRM SW reset parameter indicates that no autonomous SW reset due to an error has taken place since the start-up of the unit.</i> | | |
| | | Verify Telemetry STR2 SW rev nr AMXM1075 | | AND=ZAADB999 |
| | | Verify Telemetry STR2 SW iss nr AMXM2075 | | AND=ZAADB999 |
| | | <i>Values of software issue and revision will be provided for the flight configuration of the ACMS.</i> | | |
| | | Verify Telemetry STR2 CPU IO cnf AMXMB075 | = No failure | AND=ZAADB999 |
| | | Verify Telemetry STR2 CPUWaitCon AMXMC075 | = No failure | AND=ZAADB999 |
| | | Verify Telemetry STR2 CPUMemConf AMXMD075 | = No failure | AND=ZAADB999 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|---|--------------|------------------|
| | | Verify Telemetry STR2 CPUctrlreg AMXME075 | = No failure | AND=ZAADB999 |
| | | Verify Telemetry STR2 EDAC check AMXMF075 | = OK | AND=ZAADB999 |
| | | Verify Telemetry STR2 RAM fail AMXMK075 | = No failure | AND=ZAADB999 |
| | | Verify Telemetry STR2 RAM errors AMXMJ075 | = 0 <dec> | AND=ZAADB999 |
| | | Verify Telemetry STR2 corrEEPROM AMXMT075 | = 0 <dec> | AND=ZAADB999 |
| 21 | | Disable DTM for SA15 | | Next Step: 22 |
| | | <p><i>STR checkout data from SA15 need to be verified only once after start-up. This makes it possible to disable the DTM packet for SA15 and use STR diagnostic packet one at a time during the installation of the unit. Obviously, the packets can also be used in contingencies when error status data may be needed for troubleshooting.</i></p> | | |
| | | Execute Telecommand <p style="text-align: right;">DisableTmGen</p> Command Parameter(s) : N AH017070 1 <dec> (Def) Sub-Type AH019070 Diag Report Packet-ID AH020070 106 <dec> TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : Disable Generation of Telemetry Packets | AC902070 | |
| 22 | | Enable DTM for SA19 | | Next Step: 23 |
| | | Execute Telecommand <p style="text-align: right;">EnableTmGen</p> Command Parameter(s) : N AH017070 1 <dec> (Def) Sub-Type AH019070 Diag Report Packet-ID AH020070 107 <dec> TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 20 Det. descr. : Enable Generation of Telemetry Packets | AC900070 | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|--|-------------|------------------|
| | | Verify Packet Reception H DTM STR1-2 SA19D Packet Details: APID: 514 Type: 3 Subtype: 26 PI1: 20007 PI2: | A3DHSTRSA19 | |
| 23 | | Send low level bus command to prepare config data | | Next Step: 24 |
| | | Execute Telecommand STR2 CONFIG Command Parameter(s) : STRCfg DF86 Cmd AH8J3001 Enable 86 STRCfg DD86 Cmd AH8J4001 Enable 86 STRCfg Nrof Wrđ AHFX8001 1 <dec> (Def) STRCfg Data Wrđ AHFX9001 0 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,1) Command STR config - STR2 CONFIG | ACZP6109 | |
| | | Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config | ACZ4M109 | |
| 24 | | Send low level TC to force acquisition of SA19 | | Next Step: 25 |
| | | Execute Telecommand Command STR config 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 Common STRConf 1553 TR AHFX6001 Transmit STRConf Subaddr AHFX4001 Read cfg data STRConf Unit AHFX5001 STR-2 STRConf DWC MC AHFX7001 7 <dec> STRCfg Nrof Wrđ AHFX8001 0 <dec> TC Control Flags : | ACXC1001 | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|------|--|----------|------------------|
| | | GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC_COMMAND_STR_CONFIGURATION | | |
| | | Execute Telecommand Fire Cmd STR config Command Parameter(s) : FireFun DF86Cmd AH8F1001 Enable 86 FireFun DD86Cmd AH8F2001 Enable 86 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : TC(8,4) Fire Command - Fire Cmd STR config | ACZ4M109 | |
| 25 | | Verify SA19 data | | Next Step: 26 |
| | | Verify Telemetry STR2 ASW rev nr AMXPN075 | | AND=ZAADK999 |
| | | Verify Telemetry STR2 ASW issue AMXPP075 | | AND=ZAADK999 |
| | | Verify Telemetry STR2 Serial nr AMXPR075 | | AND=ZAADK999 |
| 26 | | Disable SA19 DTM | | Next Step: 27 |
| | | Execute Telecommand DisableTmGen Command Parameter(s) : N AH017070 1 <dec> (Def) Sub-Type AH019070 Diag Report Packet-ID AH020070 107 <dec> TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 20 Det. descr. : Disable Generation of Telemetry Packets | AC902070 | |
| TC Seq. Name : NULL06 (Null Sequence 06) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|--|------|--|-------------------|----------------------------------|
| 27 | | IF STR2 is STRm | | Next Step: THEN 28 ELSE 29 |
| 28 | | Update S/C orbital velocity in STR (H_FCP_AOC_4S41) | | Next Step: 29 |
| | | Execute Procedure: H_FCP_AOC_4S41 Update S/C orbital velocity in STR | | |
| 29 | | IF AAD mode transition required | | Next Step: THEN 30 ELSE 36 |
| TC Seq. Name :HFA8ON2G (STR2 to AAD mode) | | | | |
| TimeTag Type: Sub Schedule ID: □ | | | | |
| 30 | | Command STR2 to AAD mode | | Next Step: 31 |
| | | Execute Telecommand | | |
| | | H STR2 AAD | ACZM6109 | |
| | | Command Parameter(s) : | | |
| | | STRCfг DF86 Cmd AH8J3001 | Enable 86 | |
| | | STRCfг DD86 Cmd AH8J4001 | Enable 86 | |
| | | STRCfг Nrof Wrd AHFX8001 | 18 <dec> (Def) | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | STRCfг Data Wrd AHFX9001 | 0 <dec> | |
| | | TC Control Flags : | | |
| | | | GBM IL DSE | |
| | | | --Y -- --- | |
| | | Subsch. ID : 20 | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|------|--|----------|----------------------------------|
| | | Det. descr. : TC(8,1) Command STR config - H STR2 AAD | | |
| | | 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 | |
| | | Wait 40 seconds to make STR tracking is reflected in TM | | |
| TC Seq. Name : NULL07 (Null Sequence 07) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 31 | | IF STR2 is Main | | Next Step: THEN 32 ELSE 33 |
| 32 | | Verify tracking (ATFAD submode) | | Next Step: 36 |
| | | Verify Telemetry STRM AAD status AEX65001 = ATFAD q valid | | AND=ZAA05999 |
| | | Verify Telemetry STRM 1 trackwin AEX61001 = More 1 trk wnd | | AND=ZAA05999 |
| | | Verify Telemetry STRM Att qual AEXMY001 | | AND=ZAA05999 |
| | | <i>Verification of housekeeping parameters and error status specified in detail above can be repeated periodically throughout the STR installation procedure. The sensor output can also be verified, but no specific criteria can be provided in the procedure for the attitude quaternion.</i> | | |
| TC Seq. Name : HFA8ON2H (Verify STR2 tracking) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|--|---|------------------|
| 33 | | Enable DTM for SA11 | | Next Step: 34 |
| | | Execute Telecommand <p style="text-align: right;">EnableTmGen</p> <p>Command Parameter(s) :</p> <p style="text-align: right;">N AH017070 Sub-Type AH019070 Packet-ID AH020070</p> <p>TC Control Flags :</p> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <p>Subsch. ID : 20 Det. descr. : Enable Generation of Telemetry Packets</p> | AC900070 1 <dec> (Def) Diag Report 118 <dec> | |
| | | Verify Packet Reception <p style="text-align: right;">H DTM STR1-2 SA11D1</p> <p>Packet Details:</p> <p style="text-align: right;">APID: 514 Type: 3 Subtype: 26 PI1: 20018 PI2:</p> | A3DHSTRSA11 | |
| 34 | | Verify tracking (ATFAD submode) | | Next Step: 35 |
| | | NOTE: these TM checks assume DTM (SA11) is enabled | | |
| | | Verify Telemetry <p style="text-align: center;">STR2 AAD status AMX6M075</p> | = ATFAD q valid | AND=ZAAAM999 |
| | | Verify Telemetry <p style="text-align: center;">STR2 1 trk win AMX6H075</p> | = More 1 trk wnd | AND=ZAAAM999 |
| | | Verify Telemetry <p style="text-align: center;">STR2 AttCovQual AMX5H075</p> | | AND=ZAAAM999 |
| | | Verification of housekeeping parameters and error status specified in detail above can be repeated periodically throughout the STR installation procedure. The sensor output can also be verified, but no specific criteria can be provided in the procedure for the attitude quaternion. | | |
| 35 | | Disable DTM for SA11 | | Next Step: 36 |
| | | <i>STR checkout data from SA11 need to be verified only once after start-up. This makes it possible to disable the DTM packet for SA11 and use STR diagnostic packet one at a time during the installation of the unit. Obviously, the packets can also be used in contingencies when error status data may be needed for troubleshooting.</i> | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|--|------|---|---|------------------|
| | | Execute Telecommand <p style="text-align: right;">DisableTmGen</p> Command Parameter(s) : N AH017070 Sub-Type AH019070 Packet-ID AH020070 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : Disable Generation of Telemetry Packets | AC902070 1 <dec> (Def) Diag Report 118 <dec> | |
| TC Seq. Name : HFA8ON2I (EnableFRIDdeletedTM) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 36 | | Enable TC check (STR LOS) | | Next Step: 37 |
| | | Execute Telecommand <p style="text-align: right;">EnaChkSTRlossStar-initQ</p> Command Parameter(s) : EnaChck DF86Cmd AH8F3001 EnaChck DD86Cmd AH8F4001 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkSTRlossStar-initQ | ACZBW109 Enable 86 Enable 86 | |
| | | Verify Telemetry <p style="text-align: center;">STR loss check AES4A001</p> | = Enabled | AND=ZAA06999 |
| 37 | | Disable STR HK Check | | Next Step: 38 |
| | | Execute Telecommand <p style="text-align: right;">DisChkSTR hk data</p> Command Parameter(s) : DisChk DF86Cmd AH8C1001 DisChk DD86Cmd AH8C2001 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Disable check FDIR - DisChkSTR hk data | ACY7A109 Enable 86 Enable 86 | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------|------|--|---|-------------------|
| | | Execute Telecommand <p style="text-align: center;">Fire Disable Check</p> <i>Command Parameter(s) :</i> FireFun DF86Cmd AH8F1001 FireFun DD86Cmd AH8F2001 | ACZ7M109 Enable 86 Enable 86 | |
| | | <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- --</p> <i>Subsch. ID : 20</i> Det. descr. : TC(8,4) Fire Command - Fire Disable Check | | |
| | | Verify Telemetry <p style="text-align: center;">STR hk data chk AES4B001</p> | = Disabled | AND-ZAA06999 |
| 38 | | <i>Delete diagnostic packets for SA10, SA11, SA15 and SA19</i> | | Next Step: END |
| | | Execute Telecommand <p style="text-align: center;">Clear Diagnostic Report</p> <i>Command Parameter(s) :</i> Number of pkts AH3NP109 HK Packet ID AH3PK109 | AC034109 1 <dec> (Def) 100 <dec> | |
| | | <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- --</p> <i>Subsch. ID : 20</i> Det. descr. : TC(3,4) Clear Diagnostic Parameter Report Definitions | | |
| | | Execute Telecommand <p style="text-align: center;">Clear Diagnostic Report</p> <i>Command Parameter(s) :</i> Number of pkts AH3NP109 HK Packet ID AH3PK109 | AC034109 1 <dec> (Def) 118 <dec> | |
| | | <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- --</p> <i>Subsch. ID : 20</i> Det. descr. : TC(3,4) Clear Diagnostic Parameter Report Definitions | | |

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 Author: dsalt-hp



| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|-------------------------|------|---|--|-----------------|
| | | Execute Telecommand <p style="text-align: center;">Clear Diagnostic Report</p> <i>Command Parameter(s) :</i> Number of pkts AH3NP109 HK Packet ID AH3PK109 <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(3,4) Clear Diagnostic Parameter Report Definitions | AC034109 1 <dec> (Def) 106 <dec> | |
| | | Execute Telecommand <p style="text-align: center;">Clear Diagnostic Report</p> <i>Command Parameter(s) :</i> Number of pkts AH3NP109 HK Packet ID AH3PK109 <i>TC Control Flags :</i> <p style="text-align: right;">GBM IL DSE --Y -- ---</p> <i>Subsch. ID : 20</i> Det. descr. : TC(3,4) Clear Diagnostic Parameter Report Definitions | AC034109 1 <dec> (Def) 107 <dec> | |
| End of Procedure | | | | |