

Disable GYR checks prior to CRYO cover release
 File: H_FCP_AOC_DGYR.xls
 Author: dsalt-hp



Procedure Summary

Objectives

The objective of this Herschel ACMS procedure is to disable GYR checks prior to CRYO cover release.

The procedure involves the following activities:

- check ACMS/RCS status & configuration
- disable specific GYR checks
 - GYR Continuity
 - GYR Sum check
 - GYR/STR cross check
- WAIT for completion of CRYO cover release
- enable GYR checks

Summary of Constraints

Main Constraints:

- S/C must be in a stable SAM/OCM/SCM mode

Spacecraft Configuration

Start of Procedure

ACMS mode is stable SAM/OCM/SCM

End of Procedure

ACM mode is stable SAM/OCM/SCM after CRYO cover release

Reference File(s)

Input Command Sequences

Output Command Sequences

HFADGYRA
 HFADGYRB

Referenced Displays

ANDs **GRDs** **SLDs**
 ZAA06999

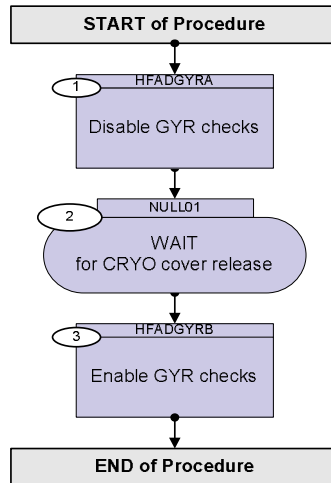
Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|----------|-----------|---------|--------------------------------------------------------------------------------------------------------------------|----------|---------|
| 23/03/09 | 2.2 | 1 | Created | dsalt-hp | |
| 14/06/09 | 2.5 | 2 | Correction to Step 3 to include TC for "GYR-STR cross check" and removal of 2nd instance of "GYR sum-diagnosis" TC | dsalt-hp | |

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Procedure Flowchart Overview



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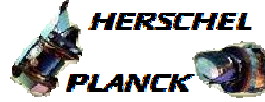
| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|
| Beginning of Procedure | | | | |
| <p>TC Seq. Name : HFADGYRA (DisableGYRchecks)</p> <p>TimeTag Type: N Sub Schedule ID:</p> <p style="text-align: center;">□</p> | | | | |
| 1 | | Disable GYR checks | | Next Step: 2 |
| 1.1 | | Disable GYR Continuity check | | □ |
| | | Execute Telecommand <p style="text-align: right;">DisChkGYR continuity</p> Command Parameter(s) : DisChk DF86Cmd AH8C1001 Enable 86 DisChk DD86Cmd AH8C2001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Disable check FDIR - DisChkGYR continuity | ACY8D109 | |
| | | Execute Telecommand <p style="text-align: right;">Fire Disable Check</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 Disable Check | ACZ7M109 | |
| | | Verify Telemetry <p style="text-align: right;">GYR cont check AES55002</p> | = Disabled | AND=ZAA06999 |
| 1.2 | | Disable GYR Sum check | | □ |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|----------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|
| | | Execute Telecommand <p style="text-align: center;">Fire Disable Check</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 Disable Check | ACZ7M109 | |
| | | Verify Telemetry <p style="text-align: center;">GYRSTR xchk AES57002</p> | = Disabled | AND-ZAA06999 |
| TC Seq. Name : NULL01 (Null sequence 01) TimeTag Type: Sub Schedule ID: <input type="checkbox"/> | | | | |
| 2 | | WAIT for CRYO cover release | | Next Step: 3 |
| | | WAIT until CRYO cover is fully released and attitude is stabilised Check with SOM before proceeding | | |
| TC Seq. Name : HFADGYRB (EnableGYRchecks) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/> | | | | |
| 3 | | Enable GYR checks | | Next Step: END |
| | | Execute Telecommand <p style="text-align: center;">EnaChkGYR continuity</p> Command Parameter(s) : EnaChk DF86Cmd AH8F3001 Enable 86 EnaChk DD86Cmd AH8F4001 Enable 86 TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- ---</p> Subsch. ID : 20 Det. descr. : TC(8,1) - Enable check FDIR - EnaChkGYR continuity | ACZDA109 | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|-------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------|
| | | Execute Telecommand EnaChkGYR sum-diagnost <i>Command Parameter(s) :</i> EnaChck DF86Cmd AH8F3001 EnaChck DD86Cmd AH8F4001 <i>TC Control Flags :</i> GBM IL DSE --Y -- -- <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) - Enable check FDIR - EnaChkGYR sum-diagnost | ACZDB109 Disable 86 Enable 86 | |
| | | Execute Telecommand EnaChkGYR-STR cross <i>Command Parameter(s) :</i> EnaChck DF86Cmd AH8F3001 EnaChck DD86Cmd AH8F4001 <i>TC Control Flags :</i> GBM IL DSE --Y -- -- <i>Subsch. ID : 20</i> Det. descr. : TC(8,1) - Enable check FDIR - EnaChkGYR-STR cross | ACZDC109 Enable 86 Enable 86 | |
| | | Verify Telemetry GYR cont check AES55002 | = Enabled | AND=ZAA06999 |
| | | Verify Telemetry GYR sumdiag chk AES56002 | = Enabled | AND=ZAA06999 |
| | | Verify Telemetry GYRSTR xchk AES57002 | = Enabled | AND=ZAA06999 |
| End of Procedure | | | | |