Clearing the complete monitoring table
File: H_FCP_DHS_3029.xls
Author: cmevi-hp

# Procedure Summary

## Objectives

This procedure describes the steps needed to remove all
parameters from the monitoring list. This effectively removes any
On Board Monitoring and it is therefore strongly recommended that
this procedure is never used.

## Summary of Constraints

To clear the monitoring list it considered as critical and
therefore requires to be armed by first Stopping the function.

During the execution of the Clear TC, the following TCs will be
rejected:
 # TC(8,1,106) Start On Board Monitoring,
 # TC(12,8) Report Current Monitoring List.

## Spacecraft Configuration

**Start of Procedure**

CDMU in default configuration, that is:
- PM A or B ON (nominally A)
- TM Encoder/OBT A or B active (nominally A)
- RM A and B enabled
- MM A and B ON

**End of Procedure**

CDMU in default configuration, that is:
- PM A or B ON (nominally A)
- TM Encoder/OBT A or B active (nominally A)
- RM A and B enabled
- MM A and B ON

## Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

HFD3029

## Referenced Displays

| ANDs | GRDs | SLDs |
|------|------|------|
| ZAZAQ999 | | (None) |
| ZAZAI999 | | |

## Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|------|-----------|---------|--------------------------|--------|---------|
| 26/10/07 | | 1 | Created | cmevi-hp | |
| 10/06/08 | | 2 | TC flags / Seq type modification | S. Manganelli | |

Status      : Version 5 - Unchanged
Last Checkin: 01/12/08

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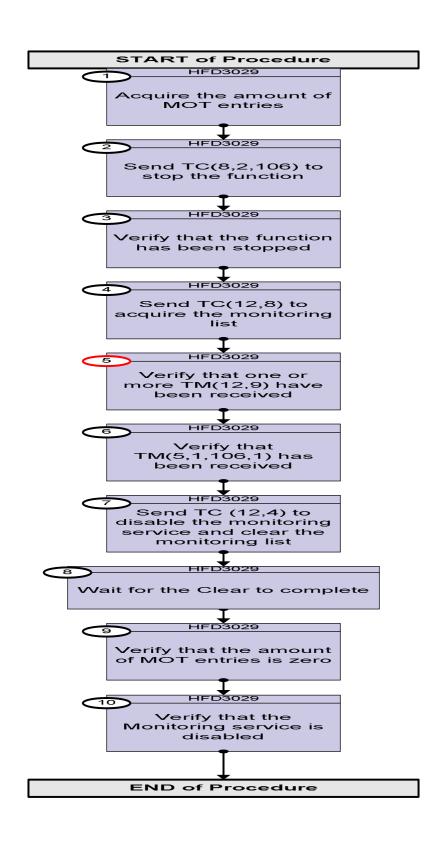| 04/07/08 | | 3 | Report monitoring list inserted at step 1 | cmevi-hp | |
| 28/07/08 | 1 | 4 | Minor updates. | cmevi-hp | |
| 01/12/08 | 2 | 5 | Procedure updated according to latest version received from industry on 24/10/2008 | cmevi-hp | |

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## Procedure Flowchart Overview

**START of Procedure**

| 1 | HFD3029 |
| | Acquire the amount of MOT entries |

| 2 | HFD3029 |
| | Send TC(8,2,106) to stop the function |

| 3 | HFD3029 |
| | Verify that the function has been stopped |

| 4 | HFD3029 |
| | Send TC(12,8) to acquire the monitoring list |

| 5 | HFD3029 |
| | Verify that one or more TM(12,9) have been received |

| 6 | HFD3029 |
| | Verify that TM(5,1,106,1) has been received |

| 7 | HFD3029 |
| | Send TC (12,4) to disable the monitoring service and clear the monitoring list |

| 8 | HFD3029 |
| | Wait for the Clear to complete |

| 9 | HFD3029 |
| | Verify that the amount of MOT entries is zero |

| 10 | HFD3029 |
| | Verify that the Monitoring service is disabled |

**END of Procedure**

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|---|---|---|---|
| | | **Beginning of Procedure** | | |
| | | TC Seq. Name :HFD3029 (Clear complete MOT)<br><br>TimeTag Type:  N<br>Sub Schedule ID: | | |
| 1 | | *Acquire the amount of MOT entries* | | Next Step:<br>2 |
| | | Verify Telemetry<br>　　　　AswNumMot          DE871170 | | AND=ZAZAQ999 |
| 2 | | *Send TC(8,2,106) to stop the function* | | Next Step:<br>3 |
| | | Execute Telecommand<br>　　　　　　StopOnBoardMon | DC53F170 | |
| | | TC Control Flags :<br>　　　　　　　GBM IL DSE<br>　　　　　　--Y -- ---<br>Subsch. ID : 10<br>Det. descr. : Stop On Board Monitoring, TC(8,2,106) | | |
| 3 | | *Verify that the function has been stopped* | | Next Step:<br>4 |
| | | Verify Telemetry<br>　　　　MonitSts          DEH23170 | = Stopped | AND=ZAZAI999 |
| 4 | | *Send TC(12,8) to acquire the monitoring list* | | Next Step:<br>5 |
| | | **When the CDMS receives this request, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)).**<br><br>**When the dump of TM(12,9) has ended, an Event Report TM(5,1,106,1) indicating the number of reported TM(12,9) is issued.** | | |
| | | Execute Telecommand<br>　　　　　　ReportMonitList | DC20L170 | |
| | | TC Control Flags :<br>　　　　　　　GBM IL DSE<br>　　　　　　--Y -- ---<br>Subsch. ID : 10<br>Det. descr. : Report current monitoring list, TC(12,8), no appl. data | | |
| 5 | | *Verify that one or more TM(12,9) have been received* | | Next Step:<br>6 |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|---|---|---|---|
| | | Verify Packet Reception<br>　　　　**TM 12-9 Current Monitoring List Report**<br>*Packet Details:*<br>　　　　　　　　　　　APID:<br>　　　　　　　　　　　Type:<br>　　　　　　　　　　Subtype:<br>　　　　　　　　　　　PI1:<br>　　　　　　　　　　　PI2: | CurMonLstRpt<br><br><br>16<br>12<br>9 | |
| | | Verify Telemetry<br>　　　　　N_Repetition　　　　　　DE014170 | | (None) |
| | | **The following 12 parameters are repeated N times** | | |
| | | Verify Telemetry<br>　　　　　ParameterId　　　　　　DE054170 | | (None) |
| | | Verify Telemetry<br>　　　　　MonitorId　　　　　　DE055170 | | (None) |
| | | Verify Telemetry<br>　　　　ParamMonStatus　　　　DE056170 | | (None) |
| | | Verify Telemetry<br>　　　　　MonitInterval　　　　　DE057170 | | (None) |
| | | Verify Telemetry<br>　　　　　RepNumber　　　　　DE058170 | | (None) |
| | | Verify Telemetry<br>　　　　　CheckValue　　　　　DE059170 | | (None) |
| | | Verify Telemetry<br>　　　　　CheckMask　　　　　DE060170 | | (None) |
| | | Verify Telemetry<br>　　　　　CheckTypeId　　　　　DE061170 | | (None) |
| | | Verify Telemetry<br>　　　　　Event1Id　　　　　　DE062170 | | (None) |
| | | Verify Telemetry<br>　　　　　Event2Id　　　　　　DE063170 | | (None) |
| | | Verify Telemetry<br>　　　　LinkedUnitId　　　　　DEZSH170 | | (None) |
| | | Verify Telemetry<br>　　　　MonUnitStatus　　　　DEZU5170 | | (None) |
| | | | | |
| 6 | | *Verify that TM(5,1,106,1) has been received* | | Next Step:<br>7 |
| | | Verify Packet Reception<br>　　　**CdmuAsw Event 5-1-106-1 TM 12-9 Dump Ended**<br>*Packet Details:*<br>　　　　　　　　　　　APID:<br>　　　　　　　　　　　Type:<br>　　　　　　　　　　Subtype:<br>　　　　　　　　　　　PI1:<br>　　　　　　　　　　　PI2: | D_EvRp_033<br><br><br>16<br>5<br>1<br>27137<br>0 | |

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Fop Issue :                       3.0
Issue Date:                  13/04/10

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch |
|---|---|---|---|---|
| | | Verify Packet Telemetry (Pkt = D_EvRp_033)<br><br>**TM5xEventID**               DEZSJ170 | **= TM_12_9DmpEnd** | (None) |
| | | Verify Packet Telemetry (Pkt = D_EvRp_033)<br><br>**NrOfTmPktIssued**         DE072170 | **As many as TM(12,9) were received in previous step** | (None) |
| 7 | | *Send TC (12,4) to disable the monitoring service and clear the monitoring list* | | Next Step:<br>8 |
| | | **When the CDMS receives this request, it sets the Service monitoring status to "Disabled" and clears all entries in the Monitoring List as well as in SGM.** | | |
| | | Execute Telecommand<br>                              **ClearMonitList**<br><br>*TC Control Flags :*<br>                              **GBM IL DSE**<br>                              **--Y -- ---**<br>*Subsch. ID : 10*<br>Det. descr. : Clear Monitoring List, TC(12,4), no appl. data | **DC19L170** | |
| 8 | | *Wait for the Clear to complete* | | Next Step:<br>9 |
| | | **The MOT clear in progress flag is set to "Yes" during the execution of the clear TC and back to False after the clear is finished.**<br><br>**Note: the estimated execution time is 4.8 s.** | | |
| | | Verify Telemetry<br>             **MotClear**            DEN0D170 | **= No** | AND=ZAZAQ999 |
| 9 | | *Verify that the amount of MOT entries is zero* | | Next Step:<br>10 |
| | | Verify Telemetry<br>             **AswNumMot**           DE871170 | **= 0 <dec>** | AND=ZAZAQ999 |
| 10 | | *Verify that the Monitoring service is disabled* | | Next Step:<br>END |
| | | Verify Telemetry<br>             **MotStatus**           DEN0A170 | **= DISABLED** | AND=ZAZAQ999 |

**End of Procedure**