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# Procedure Summary

## Objectives

This procedure describes the steps needed to perform one of the following actions related to the Monitoring table:

- Modify the Monitoring List;
- Delete parameters from monitoring list;
- Report current monitoring list.

NOTE: A procedure containing the commands to upload the default (EEPROM version) MOT entries, with editable parameters, is available as  $\rm H\_FCP\_DHS\_DEFMO$ 

## Summary of Constraints

Default status of the ASW function "On board Monitoring": "Started".

When the function is stopped, it does not accept any other telecommands than the:

- Start Function TC(8,1,106);
- Report Function Status TC(8,5,106);
- Clear Monitoring List TC(12,4);
- Report Current Monitoring List TC(12,8).

Thus, if the function is stopped only the report can be acquired.

## 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

HFD3030A HFD3030B HFD3030C HFD3030D

Referenced Displays

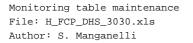
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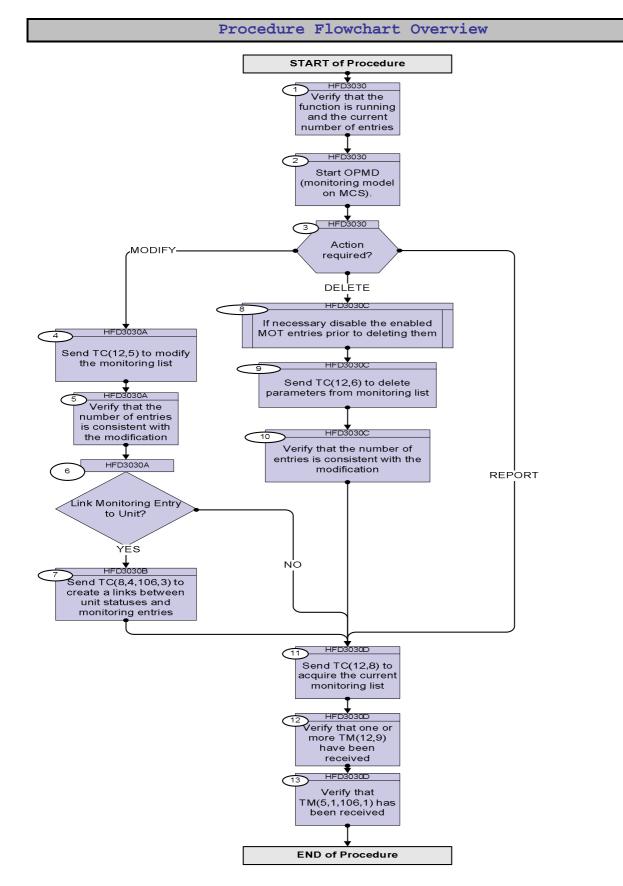
(None)

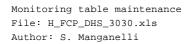
## Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
16/11/07		1	Created	cmevi-hp	1
10/06/08	1	2	TC flags / Seq type modification	S. Manganelli	
23/11/08		3	Modified following industry inputs 16 oct 08	S. Manganelli	
11/12/08	2	4	Editorial	S. Manganelli	
02/03/09	2.1	5	Comment added at step 2	cmevi-hp	
22/03/09	2.2	6	Inserted comments about OPMD. Inserted check on count of monitored entries as per TAS-I input 3 march 09	S. Manganelli	
19/04/09	2.3	7	Added comment related to interpretation of mother-daughter parameter monitoring and their check mask	S. Manganelli	

Doc No. :PT-HMOC-OPS-FOP-6001-OPS-OAH Fop Issue : 3.0











Step No.	Time		Activity/Remarks		TC/TLM	Display/ Branch
		Begin	nning of Proce	dure		
		TC Seq. Name :HFD3( TimeTag Type: Sub Schedule ID:	030 (Dummy sequenc	e)		
1		Verify that the fun number of entries	nction is running	and the current		Next Step: 2
		Verify Telemetry	MonitSts	DEH23170	= Running	AND=ZAZAI999
		Verify Telemetry	AswNumMot	DE871170	Note the value	(None)
2		Chant ODVD (monitor	ing model on MGC			Next Step:
		Start OPMD (monitor All operations in t followed observing model display. The activity and by rec	this procedure can their effect on t model is updated	be easily he monitoring		
3		Action required?				Next Step: MODIFY 4 REPORT 11 DELETE 8
						1
		TC Seq. Name :HFD30 TimeTag Type: Sub Schedule ID:	030A (Add Modif MC	T entry)		
4		Send TC(12,5) to mo	odify the monitori	ng list		Next Step: 5



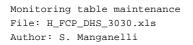
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		This telecommand is used for adding parameters into the monitoring list and for modifying entries already present in the monitoring list.		
		When the CDMU ASW receives this request, it will add the parameter monitoring information to the Monitoring List, and set the parameter monitoring status according to the value provided in the Monitoring Status field. In case a parameter has already an entry in the Monitoring list with an identical Monitoring Identifier, the values provided with the new Telecommand shall replace the previous values, in order to facilitate a modification.		
		If an error is detected during the processing of the monitoring information for a given parameter, this parameter is not added to the Monitoring List. This does not affect the processing of the remaining parameters		
		WARNING: the following TC is of variable length and therefore does not allow the definition of a generic procedure.		
		In the TC(12,5) it is necessary to set the following parameters: - <u>N</u> : number of parameters to be added to the Monitoring List, or to be modified. The allowed range is between 1 and 13. - <u>Parameter-ID</u> : unique identification of a datapool parameter; - <u>Monitoring ID</u> : unique identifier of a MOT entry, it associates a certain parameter with a specific Check Definition and with specific Event Packets. If applicable, the action which will be initiated in case of monitoring event is defined on-board by the Event/ Action Service.		
		<ul> <li><u>Parameter-Monitoring-Status</u>: indicates whether the monitoring of the corresponding parameter is enabled or disabled immediately after modifying the Monitoring List.</li> <li><u>Monitoring-Interval</u>: monitoring interval for this parameter; allowed values are 1, 2, 4 and any multiple of 8 (16, 24, etc.), thus resulting in intervals of 1/8s, 1/4s, 1/2s, 1s, 2s, 3s For MOT entries that monitor the results of FCCT checks (updated at 1 Hz frequency) intervals less than 1s are not sensible.</li> </ul>		



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		- <u>REP-Number</u> : number of successive samples of the parameter, which must fail (or succeed) the check in order to establish a new checking status.		
		- <u>Check-Value</u> : provides a value against which the specified Parameter will be compared. The Check Value can be a Low Limit, High Limit, or Expected Value. The parameter to be monitored will be submitted to right alignment and to «bitwise- AND» masking before to be compared against the 16-bit specified Check-Value.		
		- <u>Check-Mask</u> : provides the bit-masking to be applied (after right alignment) to the parameter to be monitored. The «bit- masking» operation consist in «bitwise-AND» between Check- Mask and the value of the right aligned parameter to be monitored.		
		- <u>Check-Type-ID</u> : determines the type monitoring test to be performed on the pair {Masked Parameter Value; Check Value}. The expected result in all cases is FALSE.		
		If Check-Type-ID = 1 the monitoring-test 'Masked Parameter Value equal to Check Value' shall be performed. The expected result is that the parameter value should not equal to Check Value.		
		If Check-Type-ID = 2 the monitoring-test 'Masked Parameter Value larger than Check Value' shall be performed. The expected result is that the parameter value should be smaller or equal to Check Value.		
		If Check-Type-ID = 4 the monitoring-test 'Masked Parameter Value smaller than Check Value' shall be performed. The expected result is that the parameter value should be larger or equal to Check Value.		
		If Check-Type-ID = 8 the monitoring-test 'Masked Parameter Value not equal to Check Value' shall be performed. The expected result is that the parameter value should be equal to Check Value.		
		If Check-Type-ID = 16 the monitoring-test 'Masked Parameter Value larger or equal to Check Value' shall be performed. The expected result is that the parameter value should be smaller than Check Value.		
		If Check-Type-ID = 32 the monitoring-test 'Masked Parameter Value smaller or equal to Check Value' shall be performed. The expected result is that the parameter value should be larger than Check Value.		

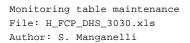


Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		- Event-ID-1 and Event-ID-2: identifier of the specific Event Report (5,x) that will be generated, when a transition of the checking status is detected.		
		For a given Monitoring-ID, the checking status will be set to IN_RANGE when Parameter-Monitoring-Status is enabled. A checking status transition will be detected when the monitoring-test gives REP Number successive results opposite to the current value of checking status.		
		If a transition of checking status from <u>IN_RANGE to</u> <u>OUT_OF_RANGE</u> is detected (this correspond to REP Number successive TRUE results of the specified monitoring-test while checking status = IN_RANGE), the Event-Packet identified by <u>Event-ID-1</u> will be generated.		
		If a transition of checking status from <u>OUT_OF_RANGE to</u> <u>IN_RANGE</u> is detected (this correspond to REP Number successive FALSE results of the specified monitoring-test while checking status OUT_OF_RANGE), the Event-Packet identified by <u>Event-ID-2</u> will be generated.		
		With this convention, the issuing of Event-Packet identified by Event-ID-1 will in all cases indicate a transition to non expected result of monitoring-test (i.e. : in a general case, the monitoring-test define an abnormal condition).		
		The value of Event-ID-1 and Event-ID-2 specified in a TC(12,5) request shall be higher than 32767 (from 8000h to FFFFh), i.e. the first bit of Event-ID for monitoring Event shall be 1b.		
		For what concerns parameters we have three possibilities:		
		<ol> <li>normal parameter (without daugthers)</li> <li>mother parameter (normal parameter having daugthers)</li> <li>daughter parameter</li> </ol>		
		The parameter ID read in the OPMD display is respectevely (see cases above):		
		<ol> <li>normal parameter (without daugthers)</li> <li>mother parameter (normal parameter having daugthers)</li> <li>daughter parameter</li> </ol>		
		When sending the command below however the following has to be used respectively (see cases above) in filling the Parameter_ID:		
		1) normal parameter (without daugthers)		





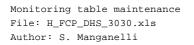
Step No.	Time	Activity/Remarks	TC/TLM	Display/	Branch
		<ol> <li>mother parameter (normal parameter having daugthers) if monitoring on all daugthers has to be enabled/disabled</li> <li>mother parameter</li> </ol>			
		This means that it must be checked in the Access DB (Table "MOTHER_DAUGTHER") what case the entry corresponds to. The following guidelines can also be helpful: - in case 2) only the mask should be modified if the enable/disable action does not have to affect all daugther parameters of that mother parameters. - the raw value for the Parameter ID can be found in the db table pcf.dat (PCF_PID) - the Parameter ID of the entry associated with the specific Monitoring_ID can be read also in vpd for the monitoring list report TM(12,9)			
		The mask parameter is always expressed as a 16 bits string, and it is used to choose which parts (daughters) of the mother parameter are actually monitored. The mapping with a daugther parameter is as shown in the example below: a 16 bit mother parameter contains three daughters A,			
		B and C : they that use the bits in the PLF of the mother as			
		The mask			
		0000 0000 0000 1111			
		on that mother parameter means that the only daughter parameter monitored by this mask is C, i.e. the one occupying location CCCC.			
		In other words, the bits of the mother parameter corresponding to zeros of the check mask are NOT monitored.			
		WARNING: the following TC is intended to be just an example.			





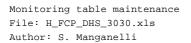
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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand AddModifMonParam	DC49F170	
		Command Parameter(s) : N_Repetition DH041170 ParameterId DH042170 MonitorId DH043170 ParamMonStatus DH044170 MonitInterval DH045170 RepNumber DH046170 CheckValue DH047170 CheckTypeId DH049170 Event1Id DH050170 Event2Id DH051170	<pre>1 <dec> (Def) Parameter_ID Monitoring_ID Enabled or Disabled Monitoring interval Repetition number Check value Check value Check type Event_ID_1 Event_ID_2</dec></pre>	
		TC Control Flags : GBM IL DSE Y Subsch. ID : 10 Det. descr. : TEMPLATE Add or Modify Param of the Monit List, TC(12,5) This Telecommand will not be included in the export		
5		Verify that the number of entries is consistent with the modification		Next Step: 6
		Verify Telemetry AswNumMot DE871170	Compare this value with step 1	(None)
		If new entries have been defined the new number shall have		
		increased accordingly, otherwise the number of entries is unchanged.		
6		Link Monitoring Entry to Unit?		Next Step: NO 11 YES 7
		TC Seq. Name :HFD3030B (Set MOT UNIT link) TimeTag Type: Sub Schedule ID:		
7		Send TC(8,4,106,3) to create a links between unit statuses and monitoring entries		Next Step: 11





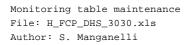
No.     Tase     Activity/marks     TC/TM     Dasplay/ Bran       Image: Control of PCDU management TC, so that in the beginning of the commanding sequence all monitorings linked to the original unit status are disabled, and in the end of the sequence all the monitorings connected to the new unit status are enabled.     Image: Control of CO, Control of Co	Step	m i		ma /	
7.1       Link all MOT entries to a UnitID and the expected status is irrelevant.         7.1       Link all MOT entries to a UnitID and the expected status is irrelevant.         Reserved       LinkstatusUnitMon Difference         7.1       Linkscherter(s) : LinksduitId Difference         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Linkscherter(s) : LinksduitId Difference         0       result of a TTC or PCOU management command.         0       NoUnit         0       result of a TTC or PCOU management command.         0       LinkstatusUnitMon Respection Difference         0       Command Parameter(s) : LinkstatusUnitMon Respection Difference         0       cdecx         1       Difference         1       Difference         2       Difference         2       Difference         3       respection Difference         3       respection Difference         3       respection Differen	No.	Time	or PCDU management TC, so that in the beginning of the commanding sequence all monitorings linked to the original unit status are disabled, and in the end of the sequence all the	TC/TLM	Display/ Branch
7.1       Link salue on off;         Number of reptition;       Of the unit status is linked into all monitorings.         Parameters repeated N times:       - Parameter ID uniquely identifying the datapool parameter;         - Monitoring ID uniquely identifying the MOT entry.         7.1       Link all MOT entries to a UnitID and the expected status         No ntioring ID uniquely identifying the MOT entry.         7.1       Link all MOT entries to a UnitID and the expected status         No PCDU management command.         In this case the expected status is irrelevant.         Execute Telecommand         LinkStatusUnitNon         Command Parameter(s) :         Mukhnittat DPHBB170         No Napertition         DR041170         Command Parameter(s) :         Control Flags :					
7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries would be linked to NoUnit, ie the monitorings will never be disabled as a result of a TTC or PCDU management command.         In this case the expected status is irrelevant.       DCP08170         Command Parameter(s) ;       LinkstatusUnitKon         In this case the expected status is irrelevant.       DCP08170         Command Parameter(s) ;       LinkstatusUnitKon         In this case the expection DH041170       NoUnit On 0          In this case the included in the export       NoUnit On 0          In this case the included in the export       NoUnit On 0          In this case the expected status is irrelevant.       DCP08170         In this case the expected status is irrelevant.       DCP08170         In this case the expected status is irrelevant.       NoUnit On 0          In this casubset of MOT entries to a			- <u>Unit ID</u> (0xFFFF for no unit);		
0 if the unit status is linked into all monitorings.         Parameters repeated N times:         - Parameter ID uniquely identifying the datapool parameter;         - Monitoring ID uniquely identifying the MOT entry.         7.1         Link all MOT entries to a UnitID and the expected status         In this particular case all entries would be linked to NoUnit, le the monitorings will never be disabled as a result of a TTC or PCDU management command.         In this case the expected status is irrelevant.         Execute Telecommand         LinkStatusUnitStatus         Management Control Plags :         GBM IL DSE					
- Parameter ID uniquely identifying the datapool parameter;         - Monitoring ID uniquely identifying the MOT entry.         - Monitoring ID uniquely identifying the MOT entry.         7.1         Link all MOT entries to a UnitID and the expected status         n this particular case all entries would be linked to NoUnit, le the monitorings will never be disabled as a result of a TTC or PCDU management command.         In this case the expected status is irrelevant.         Execute Telecommand         LinkStatusUnitMon         Command Parameter(s) :         LinkWhitEstatus         DIB01170         N.Repetition         DEVENSITY         Subsch. ID : 10         Det. descr. : TC(6,4,106,3) Link Monitoring Entry To Status Dit         This Telecommand will not be included in the export         7.2					
7.1       Link all MOT entries to a UnitID and the expected status         7.1       Link all MOT entries to a UnitID and the expected status         In this particular case all entries would be linked to NoUnit, ie the monitorings will never be disabled as a result of a TTC or PCDU management command.         In this case the expected status is irrelevant.         Execute Telecommand         LinkStatusUnitMon         Command Parameter(s) :         LinkedUnitId       DH183170         NoUnit         On         Control Flags :         GBM IL DSE         -Y         Subsch. ID : 10         Det. descr. : TC(8,4,106,3) Link Monitoring Entry To Status Unit         This Telecommand will not be included in the export         7.2       Link a subset of MOT entries to a UnitID and the			Parameters repeated N times:		
status       In this particular case all entries would be linked to NoUnit, ie the monitorings will never be disabled as a result of a TTC or PCDU management command.         In this case the expected status is irrelevant.         Execute Telecommand         LinkStatusUnitMon       DCP08170         Command Parameter(s) :         LinkedUnitId       DH183170         NoUnit       On         N_Repetition       DH041170         0 < dec>         TC Control Flags :       GBM IL DSE         Subsch. ID : 10       Det. descr. : TC(8,4,106,3) Link Monitoring Entry To Status Unit         This Telecommand will not be included in the export         7.2       Link a subset of MOT entries to a UnitID and the					
status       In this particular case all entries would be linked to NoUnit, ie the monitorings will never be disabled as a result of a TTC or PCDU management command.         In this case the expected status is irrelevant.         Execute Telecommand         LinkStatusUnitMon       DCP08170         Command Parameter(s) :         LinkedUnitId       DH183170         NoUnit       On         N_Repetition       DH041170         0 < dec>         TC Control Flags :       GBM IL DSE         Subsch. ID : 10       Det. descr. : TC(8,4,106,3) Link Monitoring Entry To Status Unit         This Telecommand will not be included in the export         7.2       Link a subset of MOT entries to a UnitID and the					
the monitorings will never be disabled as a result of a TTC or PCDU management command. In this case the expected status is irrelevant.       DCP08170         Execute Telecommand LinkStatusUnitMon       DCP08170         Command Parameter(s) : LinkedUnitId LinkUnitStatus       DH183170 DH180170         Command Parameter(s) : LinkentitStatus       DH180170 DH180170         Command Parameter(s) : LinkEntitStatus       DH180170 DH180170         Command Parameter(s) : LinkEntitStatus       DH180170 DH180170         Subsch. ID : 10 Det. descr. : TC(8,4,106,3) Link Monitoring Entry To Status Unit This Telecommand will not be included in the export         7.2       Link a subset of MOT entries to a UnitID and the	7.1				
Execute Telecommand       LinkStatusUnitMon       DCP08170         Command Parameter(s) :       LinkedUnitId       DH183170       NoUnit         LinkWnitStatus       DH180170       On       0         NoUnit       On       0       0       0         TC Control Flags :       GBM IL DSE      Y       Subsch. ID : 10         Det. descr. : TC(8,4,106,3) Link Monitoring Entry To       Status Unit       This Telecommand will not be included in the export         7.2       Link a subset of MOT entries to a UnitID and the       Image: Command test in the export       Image: Command test in the export			the monitorings will never be disabled as a result of a TTC or		
LinkstatusUnitMon       DCP08170         Command Parameter(s) :       LinkedUnitId       DH183170         LinkUnitStatus       DH180170       NoUnit         M. Repetition       DH041170       0 <dec>         TC Control Flags :       GEM IL DSE      Y         Subsch. ID : 10       Det. descr. : TC(8,4,106,3) Link Monitoring Entry To       Status Unit         This Telecommand will not be included in the export      </dec>			In this case the expected status is irrelevant.		
LinkedUnitId       DH183170       NoUnit         LinkUnitStatus       DH180170       On         N_Repetition       DH041170       O <dec>         TC Control Flags :       GEM IL DSE      Y         Subsch. ID : 10       Det. descr. : TC(8,4,106,3) Link Monitoring Entry To       Status Unit         This Telecommand will not be included in the export      </dec>				DCP08170	
GBM IL DSE        Y         Subsch. ID : 10         Det. descr. : TC(8,4,106,3) Link Monitoring Entry To         Status Unit         This Telecommand will not be included in the export         7.2         Link a subset of MOT entries to a UnitID and the			LinkedUnitId DH183170 LinkUnitStatus DH180170	On	
Det. descr. : TC(8,4,106,3) Link Monitoring Entry To         Status Unit         This Telecommand will not be included in the export         7.2         Link a subset of MOT entries to a UnitID and the			GBM IL DSE Y		
			Det. descr. : TC(8,4,106,3) Link Monitoring Entry To Status Unit		
	7.2				





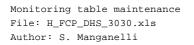


No.	Time	Activity/Remarks		TC/TLM	Display/ Branc
		Execute Telecommand			
		LinkStatusUnitMo	on	DCP08170	
		Command Parameter(s) : LinkedUnitId DH18317	70	Unit_ID	
		LinkUnitStatus DH18017		On or Off	
		N_Repetition DH04117		1 <dec> (Def)</dec>	
		ParameterId DH04217		Parameter_ID	
		MonitorId DH04317	70	Monitoring_ID	
		TC Control Flags :			
		GBM IL DS			
		Y			
		Subsch. ID : 10 Det. descr. : TC(8,4,106,3) Link Monitoring Entry			
		Status Unit	10		
		This Telecommand will not be included in the expo	ort		
		TC Seq. Name : HFD3030C (Delete MOT entry)			
		TimeTag Type: Sub Schedule ID:			
		Sub Schedule 1D:			
					Next Step:
8		If necessary disable the enabled MOT entries prio	or to		Next Step: 9
8		If necessary disable the enabled MOT entries prio deleting them	or to		
8			or to		
8		deleting them			
8		deleting them           WARNING:         entries containing parameters to be deleted m			
8		deleting them			
8		deleting them <u>WARNING:</u> entries containing parameters to be deleted n first be disabled or the TC(12,6) will be rejected.			
8		deleting them           WARNING:         entries containing parameters to be deleted m			
8		deleting them <u>WARNING:</u> entries containing parameters to be deleted n first be disabled or the TC(12,6) will be rejected.			
8		deleting them <u>WARNING:</u> entries containing parameters to be deleted n first be disabled or the TC(12,6) will be rejected.			9
		deleting them           WARNING:         entries containing parameters to be deleted m           first be disabled or the TC(12,6) will be rejected.           Execute procedure H_FCP_DHS_3028.	nust		9 Next Step:
8		<pre>deleting them <u>WARNING:</u> entries containing parameters to be deleted m first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin</pre>	nust		9
		deleting them           WARNING:         entries containing parameters to be deleted m           first be disabled or the TC(12,6) will be rejected.           Execute procedure H_FCP_DHS_3028.	nust		9 Next Step:
		<pre>deleting them <u>WARNING:</u> entries containing parameters to be deleted m first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin list</pre>	nust		9 Next Step:
		<pre>deleting them <u>WARNING:</u> entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin list When the CDMU ASW receives this request, it processes</pre>	nust <sup>1g</sup> s each		9 Next Step:
		<pre>deleting them <u>WARNING:</u> entries containing parameters to be deleted m first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin list</pre>	nust <sup>1g</sup> s each		9 Next Step:
		<pre>deleting them <u>WARNING:</u> entries containing parameters to be deleted m first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin list When the CDMU ASW receives this request, it processes</pre>	nust <sup>1g</sup> s each		9 Next Step:
		<pre>deleting them WARNING: entries containing parameters to be deleted m first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin list When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monito information, if any, from the Monitoring List (the entry</pre>	nust <sup>1g</sup> s each		9 Next Step:
		<pre>deleting them <u>WARNING:</u> entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected. Execute procedure H_FCP_DHS_3028. Send TC(12,6) to delete parameters from monitorin list When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monito</pre>	nust <sup>1g</sup> s each		9 Next Step:
		deleting them         WARNING: entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected.         Execute procedure H_FCP_DHS_3028.         Send TC(12,6) to delete parameters from monitorin list         When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monito information, if any, from the Monitoring List (the entry becomes free).	nust <sup>1g</sup> s each oring		9 Next Step:
		deleting them         WARNING: entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected.         Execute procedure H_FCP_DHS_3028.         Send TC(12,6) to delete parameters from monitorin list         When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monito information, if any, from the Monitoring List (the entry becomes free).         If a certain parameter is not in the Monitoring List there s	nust <sup>2g</sup> s each oring shall		9 Next Step:
		deleting them         WARNING: entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected.         Execute procedure H_FCP_DHS_3028.         Send TC(12,6) to delete parameters from monitorin list         When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monito information, if any, from the Monitoring List (the entry becomes free).         If a certain parameter is not in the Monitoring List there s be no effect on the deletion of the parameters which have	nust <sup>2g</sup> s each oring shall		9 Next Step:
		deleting them         WARNING: entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected.         Execute procedure H_FCP_DHS_3028.         Send TC(12,6) to delete parameters from monitorin list         When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monito information, if any, from the Monitoring List (the entry becomes free).         If a certain parameter is not in the Monitoring List there s	nust <sup>2g</sup> s each oring shall		9 Next Step:
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		deleting them         WARNING: entries containing parameters to be deleted in first be disabled or the TC(12,6) will be rejected.         Execute procedure H_FCP_DHS_3028.         Send TC(12,6) to delete parameters from monitorin list         When the CDMU ASW receives this request, it processes parameter in turn and removes its corresponding monitor information, if any, from the Monitoring List (the entry becomes free).         If a certain parameter is not in the Monitoring List there s be no effect on the deletion of the parameters which have entry in the Monitoring List.	nust <sup>2g</sup> s each oring shall e an		9 Next Step:



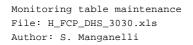


Step				
No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		In the TC(12,6) it is necessary to set the following parameters:		
		- <u>N</u> : number of parameters to be removed from Monitoring		
		List.		
		<ul> <li>Parameter-ID: unique identification of the datapool parameter.</li> </ul>		
		- Monitoring-ID: associates a certain parameter with a specific		
		Check Definition and with specific Event Packets. If applicable,		
		the action which will be initiated in case of monitoring event is		
		defined on-board by the Event/ Action Service.		
		WARNING: the following TC is intended to be just an example.		
		Transie of the following to is interface to be just an example.		
		Execute Telecommand DeleteMonitParam_Templ	DCT28170	
		Command Parameter(s) : N_Repetition DH041170	1 <dec> (Def)</dec>	
		ParameterId DH042170	Parameter_ID	
		MonitorId DH043170	Monitoring_ID	
		TC Control Flags :		
		GBM IL DSE Y		
		Subsch. ID : 10		
		Det. descr. : TEMPLATE Delete Parameters from the monitoring list, TC(12,6)		
		This Telecommand will not be included in the export		
				Next Step:
10		Verify that the number of entries is consistent with the modification		11
		the modification		
		Verify Telemetry		
		AswNumMot DE871170	Compare this	(None)
			value with step 1	
		TC Seq. Name :HFD3030D (Report MOT)		
		TimeTag Type:		
		Sub Schedule ID:		
				Next Step:
11		Send TC(12,8) to acquire the current monitoring list		12





Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
NO.	1100	This check should be done using the MCS OPMD task.	10/11A	Dispidy/ Dianci
		When the CDMU ASW receives this TC, it issues one or several reports with the current static contents of the Monitoring List (TM packet type (12,9)). 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 ReportMonitList	DC20L170	
		TC Control Flags : GBM IL DSE		
		Y		
		Subsch. ID : 10 Det. descr. : Report current monitoring list,		
		TC(12,8), no appl. data		
12		Notify that one or more $TM(12, 0)$ have been more than $1$		Next Step: 13
12		Verify that one or more TM(12,9) have been received		13
			1	
		Verify Packet Reception		
		TM 12-9 Current Monitoring List Report Packet Details:	CurMonLstRpt	
		APID: Type:	16 12	
		Subtype:	9	
		PI1: PI2:		
		Verify Telemetry		
		N_Repetition DE014170		(None)
		The following 12 parameters are repeated N times		
		Verify Telemetry Unique identifier for the datapool parameter <b>ParameterId DE054170</b>		(None)
		Verify Telemetry		
		Unique Identifier of the MOT entry MonitorId DE055170		(None)
		Verify Telemetry ParamMonStatus DE056170	Enabled or Disabled	(None)
		Verify Telemetry The allowed monitoring intervals are values 1 (= 1/8 sec), 2 (= 1/4 sec), 4(= 1/2 sec), and any multiple of 8 (8=1 sec, 16=2 sec, 24=3 sec, etc.) MonitInterval DE057170	multiples of 1/8 sec	(None)
		Verify Telemetry The number of successive samples of the parameter, which must fail (or succeed) the check in order to establish a new checking status. <b>RepNumber DE058170</b>		(None)
		Verify Telemetry The value against which the specified Parameter shall be compared. Please note that this is the OUT OF RANGE value!		(None)
i i		CheckValue DE059170		





No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry The «bit-masking» operation consist in «bitwise-AND» between Check-Mask and the value of the parameter to be monitored. CheckMask DE060170	bit-masking to be applied to the parameter to be monitored	(None)
		Verify Telemetry One of =, >, <, <>, >= , <= Please note that the expeted result of the expression is FALSE! CheckTypeId DE061170		(None)
		Verify Telemetry Event ID-1 is reporting the transition between an "In Range" to" Out of Range status, its type is 2 and if declared and enabled in the EAT an onbard action will take place. Event1Id		(None)
		Verify Telemetry Event ID-2 is reporting a transition between an "Out of Range" to "In Range" status, its type is 1, ie for information only. Event2Id DE063170		(None)
		Verify Telemetry The identifier of the unit that is linked to the MOT entry LinkedUnitId DEZSH170		(None)
		Verify Telemetry The MOT entry is foreseen to be enabled when the Unit specified into the "Unit ID" field is according to the status specified into "Unit Status" field, otherwise the MOT entry is disabled.	ON or OFF	(None)
		MonUnitStatus DEZU5170		
13		Verify that TM(5,1,106,1) has been received		Next Step: END
		Verify Packet Reception CdmuAsw Event 5-1-106-1 TM 12-9 Dump Ended Packet Details: APID: Type: Subtype: PI1: PI2:		
		Verify Packet Telemetry TM5xEventID DEZSJ170	= TM_12_9DmpEnd	(None)
		Verify Packet Telemetry NrOfTmPktIssued DE072170		(None)
			1	1